

Dany Gunawan

gunawan_dany[at]yahoo.com

www.danygunawan.com

.: EDUCATION

- 2009 **Master of Information Technology**
Swinburne University of Technology, Hawthorn
- .NET and Web development specialization
 - **High Distinction** results achieved for all subjects
(**Full mark achieved** for Enterprise .NET and Advanced .NET)
- 2008 **Bachelor of Science (Information Technology)**
Swinburne University of Technology, Hawthorn
- **High Distinction** results achieved for all subjects
- 2005 – 2007 **Advanced Diploma of Information Technology**
Institut Sains Terapan dan Teknologi Surabaya, East Java, Indonesia
- **Grade Point Average (G.P.A.) 4.0** (*High Distinction equivalent*)

.: ACADEMIC PROJECTS

- **SudokuModeOn (2007)**
An online Artificial Intelligence-based (Optimum A*) sudoku solver, developed using ASP.NET.
Achieved High-Distinction mark for this project.
- **Live Support System (2009)**
A **chat based system** that delivers **real-time support system**, enabling the client and the operator to interactively communicate with each other; developed using **WCF duplex binding (C#.NET)**.
Achieved High-Distinction mark for this project.
- **Seacow Database Management System (2009)**
A **lightweight and powerful database management system** focused on database's atomicity, concurrency, and isolation properties; **developed from scratch, using C#.NET**.
Achieved High-Distinction mark for this project.

.: PERSONAL PROJECTS

- **JoyInsider (2014 - present)**

A **non-profit cloud collaboration portal for church's ministers**, developed on top of Bootstrap and ASP.NET MVC framework, allowing them to roster and allocate resources effectively, managing events, and tracking congregations.

.: SKILLS and ABILITIES

Web

Technology

- ASP
- ASP.NET
- ASP.NET MVC
- Web Services
- WCF
- ASP.NET Web API (RESTful)
- HTML
- XHTML
- CSS
- SASS
- JavaScript
- VBScript
- jQuery
- AngularJS
- Bootstrap

Cloud

- AWS
 - EC2
 - Lambda
 - S3
 - API Gateway
 - SQS
 - SNS
 - ECR
 - Kinesis
 - Route53
 - RDS
 - DynamoDB
 - Elastic Cache (Redis)
 - CloudFront
 - CloudWatch
 - IAM
 - System Manager
- Azure
 - Azure Web Role
 - Azure Worker Role

<i>CI/CD</i>	<ul style="list-style-type: none"> ● Travis CI ● Team City ● Octopus Deploy ● Helm ● Terraform ● CloudFormation ● Shell Script ● Makefile
<i>Infrastructure and Services</i>	<ul style="list-style-type: none"> ● NServiceBus ● Windows Server ● IIS ● SQL Server Integration Service (SSIS)
<i>CRM & Content Management</i>	<ul style="list-style-type: none"> ● Microsoft Dynamic CRM ● Microsoft Sharepoint ● Salesforce ● Wordpress
<i>Programming Language</i>	<ul style="list-style-type: none"> ● C#.NET ● GO ● Visual Basic ● VB .NET ● C++ ● Salesforce APEX
<i>Database Technology</i>	<ul style="list-style-type: none"> ● SQL Server ● MySQL ● MongoDB ● DynamoDB ● Oracle ● Microsoft Office Access
<i>Testing</i>	<ul style="list-style-type: none"> ● MSTest ● junit ● NUnit ● xUnit ● Selenium
<i>Source Control</i>	<ul style="list-style-type: none"> ● SVN ● Git ● TFS (Team Foundation Server)
<i>Software/System Proficiency</i>	<ul style="list-style-type: none"> ● Microsoft Visual Studio ● Microsoft Office Word, Excel, PowerPoint ● Visio

- Analytic*
 - Google Analytic
 - HEAP

- Reporting*
 - Crystal Report
 - Telerik
 - SQL Server Reporting Service (SSRS)

- Language proficiency*
 - English
 - Indonesian

- Methodology*
 - Scrum
 - Kanban
 - TDD

- Team Building*
 - **Able to work together with other team members** as demonstrated in completing team-based assignments (at university) and a number of projects as part of my job responsibilities.
 - I play guitar **in collaboration with other musicians** for Sunday Service for a church.
 - I work together with few developers, testers, and business-analysts in my day-to-day work, **collaborating together from sprint to sprint to reach the agreed goal and deliverable.**

- Leadership*
 - I led a few different projects as part of my university's assignment, **coordinating and managing the task** with all of my team members.
 - I **managed a number of non-profit events** held by a church, working with a lot of volunteers, dealing with external parties, and coordinating high-level end-to-end needs from planning till execution.
 - I **mentored the newly-joined/junior developer** in my team at Scoopon, helping them to get up to speed with the team, taking them through our current infrastructure and solution - to get them more familiar with the system.
 - On a few other occasions, I **run a team-presentation** - covering a specific domain/project that I led, taking everyone through the solution, **sharing the knowledge** that I learnt through and also **teaching them on the best and the most efficient way** to approach the project.

- Communication Skill*
 - I **supervised Scoopon's offshore-contractor team in Romania** on the project they were assigned to, giving them a guide on how to best tackle the project. In addition, I **prepared and compiled the technical-document** covering the proposed-architecture for the system they are going to develop.
 - **Good oral communication skills**, as demonstrated through several presentations that I did in my workplace.
 - **Excellent written communication skills** as represented in preparing the documentation for a number of projects I have been dealing with.

Problem Solving

- **Skilled at problem-solving**, figuring out the best way of solving any given problem (i.e. problem domain) as reflected in my university assignments and numerous projects at works.
- I **developed my own solution** for making the computation of Sudoku Solver much faster using the Optimum A* algorithm.
- As part of a team, I **analyzed, designed and developed a system** for an automotive spare parts retail company in Indonesia, allowing for their multiple strict requirements and legal considerations.
- During my time at Nintex, I **designed a robust online centralized-billing-engine** that will be consumed by all of Nintex 365 products. Facing the **tight deadline, pressure, and high-expectation** from top-management, I **teamed up and worked closely with the architect and product-managers**, spending lots of time brainstorming and experimenting many different ways to **deliver high-performing API that scale well** with Nintex's client-base growth. Upon the release of the API, we still constantly revisit the existing solution and **seek any further way to improve and optimize its performance**.

.: EMPLOYMENT

2018 - present

**Senior Software Engineer
Flexera**

Major Projects :

- **Establishing fully-automated CI/CD pipeline**
I designed a fully automated CI/CD pipeline on **Travis** and **Github-Action**, integrating directly with **GitHub** via service-hook, utilizing **Helm, Terraform, Makefile, and Shell script**. This CI/CD pipeline manages the deployment to all of our environments i.e. sandbox, test, staging, and production.
- **Core-services modernization.**
I am heavily involved in the modernization of Flexera's internal core-services architecture, taking it **from its monolithic shape**, breaking it down **toward highly-scalable microservices**. I led some of the **design-discussion** and **whiteboard-brainstorming** process with the team and also **pioneering the proof-of-concept and the walking-skeleton work** for the new microservices - utilizing **Lambda, S3, SQS, SNS, API Gateway, DynamoDB, EC2, X-Ray, and CloudFront**.

Responsibilities:

- Designing and developing a few **micro-services (API)** that serve as the backbone of Flexera software-asset-management platform offering, exposed via **REST & GRPC** interfaces, written in **GO**.
- Crafting **docker-image** for various services and publishing it to **ECR**.
- Creating **CloudFormation** and **Terraform** scripts as **infrastructure-as-a-code** tool to provision **AWS cloud-infrastructure** resources such as **Lambda, EC2, DynamoDB, ElasticCache, EKS, Kinesis, S3, SQS, and VPC**, to name a few.
- Setting up and managing the **EKS Kubernetes** cluster, in conjunction with other tools like **Helm, Prometheus, Grafana, Errbit** and **AlertManager**.
- Configuring **alert notification** to **PagerDuty & Microsoft Teams**.
- Configuring and maintaining **New Relic metrics** for Flexera's client-facing website.
- Designing and establishing **integration-tests and performance-tests** as part of CI/CD.
- Establishing **EFK (Elastic Search, Fluentbit, Kibana)** stack for log management.
- Securing the infrastructure via **IAM, VPC, security-group** and **KMS**.
- Configuring **Vault** as secret manager within the Kubernetes cluster.
- Designing and establishing infrastructure autoscaling via **Cluster Autoscaler & Horizontal Pod Autoscaler**, that is driven by **resource utilization and Prometheus metric**.
- Integrating **HEAP** and **Google-Tag-Manager** with Flexera's client-facing website

2015 - 2018

Senior .NET Developer

Catch Group (Scoopon.com.au, BonVoyage.com.au & Yumtable.com.au)

Major Projects :

- **Travel-Tripper booking integration.**
I was entrusted to lead and start the development of the **integration point with Travel Tripper** - which involves building a **Web API** that talks to Travel Tripper API to grab the hotel's availability and also to submit the booking request. These availability-data are then shown on the calendar control that I built using **AngularJS**.
As a result, the customer can now directly make their room booking at one-go when purchasing their scoopon. This translates to a huge jump in automated-booking revenue. In addition, to further improve the loading time, I developed a Windows-service batch-job written on **C#** - which is scheduled to regularly grab all of our hotel's availability-data to build **offline-availability-data** from Travel Tripper API and **cached/stored it against our SQL-Server**

database. This allows us to **load the availability-calendar quicker** since we are now retrieving the data directly from our ‘offline’ database, instead of going directly to Travel Tripper API.

- **P&O Cruise booking integration**

I led and started the development of the **integration point with P&O cruise-reservation system** which involves building a dedicated API layer (**Web API**) that talks to P&O API. I built the solution in a way that complies with P&O strict requirement & TOS, while also compiling a number of **formal-documentations** about our API. After a few months of development, I finished the development and invited the P&O team to perform the end-to-end testing. Not long after that, we **got approved and went live with this automated-booking** and received a **very good response from the customer** as can be seen from the high-number of placed automated-booking.

Responsibilities:

- Maintaining and configuring **TeamCity** to automate the solution-building, to be deployed via **Powershell** into our **AWS EC2** infrastructure.
- Developing numerous **RESTful API services (Web API)** that acts as a broker between our mobile-app (Android & iOS) and our back-end system; also as an external-gateway to expose Scoopon data to be consumed by external-parties and partners.
- Developing both customer-facing and admin-facing high-responsive websites using **ASP.NET MVC, C#, SQL Server, AngularJS, HTML5, CSS, SASS**. Developed **Models, Views and Controllers and Business Logic** employing Object Oriented Programming techniques and **design patterns** like **CQRS(Command Query Responsibility Segregation)** and **Dependency Injection (Ninject)**.
- Developing **robust bus-architecture** by utilizing the **nServiceBus framework** to scale our system to be able to handle tons of simultaneous operations/requests at a time responsively.
- Leading the development of **solid-integration point** between Scoopon’s in-house systems and a number of third-party external systems like **MasterPass, Travel Tripper Hotel-Reservation, Cruise-booking (Royal Caribbean & P&O), Nabooki (Naked Booking)**, to name a few.
- Supervising and developing the **integration-point between Scoopon back-end system and Salesforce**, ensuring the business team always gets accurate data and figures on our sales and promotion.
- Utilising **Jira & Git** source-control to maintain/monitor system process changes.
- Designing and maintaining system database (**SQL Server**), optimizing a number of different queries to achieve the best performance.

- Developing a number of **administrative-reports, combining the data from our SQL Server Database, Salesforce, and other sources** - tweaking and optimizing it, and eventually rendering it nicely on our Scoopon Admin dashboard, with also giving the **option for the user to export as PDF**.
- **Mentoring and working closely with the newly-joined/junior** developer to get up to speed with the team and also assisting with any technology issue/challenge they might face.
- Developing and optimizing a number of **.NET batch-processes** that are hosted as **Windows-services**.
- Implementing **JWT (JSON Web Token)** based Single-Sign-On on some of our websites.
- Doing **R&D and proof-of-concept** on a number of new tech-stacks to be implemented at Scoopon's existing infrastructures.
- **Liaising and supervising Scoopon offshore development-contractor in Romania**, preparing the technical-document specification for the project. Troubleshooting numerous bugs and developing the fixes. Assisting the customer-service team with any technical issue that may arise while serving the customer.

2012 - 2015

**Web Developer
Nintex**

Major Project :

- **Centralized Billing Engine**
I led the development of the **Azure-based centralized billing-engine** for all of Nintex's cloud (Office-365) product offerings, exposing it as **Web API**, secured under **JWT (JSON Web Token)** scheme. Facing a tight deadline and massive-scope, **I worked together with the architect team & all product-teams**, discussing numerous best ways, patterns, and practices (**Microsoft Enterprise Library**) to build this billing-engine. After a month, I was able to deliver the first-cut of the API that features the primary base-functionalities. Later on, I continued working on adding more features and optimizing its performance.

Responsibilities:

- Developing the **client's annuity-automation system** to help streamline our client's license-renewal process, by utilizing the **workflow and Web Services**.
- Configuring and customizing **Microsoft Sharepoint** site, integrating it with a bunch of other Microsoft technology stacks. Designing and maintaining various **Nintex Forms and Workflows** to support business process automation.

- Configuring and customizing **Microsoft Dynamic CRM** (Customer Relationship Management), tailoring it to meet business needs.
- Playing a key role in the **migration project from Microsoft Dynamic CRM to Salesforce**, which involves lots of work on our backend system and **Salesforce (workflow, trigger, customization, custom APEX solution)**.
- Creating an **integration layer** that **connects Salesforce** and heaps of other integration points such as **Azure Web Role, Azure Worker Role, Sharepoint, WCF, and third-party services**, to name a few
- Crafting **WCF (Windows Communication Foundation)** services that govern the flow of information between Sharepoint web portal and Microsoft Dynamic CRM)
- Creating an array of **SSRS (SQL Server Reporting Services)** reports in conjunction with **SSIS (SQL Server Integration Services)** - that takes the data from various sources like **Microsoft Dynamic CRM, Sharepoint, Google AdWords, and Analytics**, to name a few.
- Designing and developing a number of **SSIS (SQL Server Integration Services)** packages, integrating it with our **SQL Server database, Salesforce, CRM, and Sharepoint**.
- Developing & maintaining **iQueue, a WPF (Windows Presentation Foundation)** ticketing-applications that interact with Microsoft Dynamic CRM, specially built to support our Customer-Service team.
- **Working closely with stakeholders** (internal-department-managers), gathering the requirements, understanding their situation and designing a solution (system and automation) that could fulfill their needs.
- **Fixing any issues/bugs** that have been logged into our ticketing system.

2010 - 2012

.NET Developer
JayThom Pty Ltd

Major Project :

- **Tennis-Australian Ticket-Ballot**
I played a key-role on developing the Tennis-Australia Ticket-Ballot system which involves customizing **Microsoft Dynamic CRM** and developing a custom **ASP .NET** website - that allows Tennis Australia's members to register for the ballot, and also to purchase the ticket when their ballot got approved. I managed to complete and deliver the solution before the deadline.

Responsibilities:

- Configuring and customizing **Microsoft Dynamic CRM (Customer Relationship Management)** to fit the client needs.

- **Migrating client's legacy-system to Microsoft Dynamic CRM**, redesigning their data structure to reach an optimum fit for their business.
- Developing **ASP.NET web application** to interact with Microsoft Dynamic CRM (Client Relationship Management).
- Designing and developing **WCF service** as a façade (intermediary) between the front-end web application and the back-end Microsoft Dynamic CRM.
- Creating a custom **report (utilizing Telerik & Microsoft SQL Server Reporting Service)** to tailor client needs.
- Designing and developing **front-end websites and landing pages** for our clients using **ASP.NET, HTML, CSS, JavaScript**; integrating it closely with their Microsoft Dynamic CRM back-end system.
- Troubleshooting and fixing **bugs**.

2008 - 2010

Software Developer/ Analyst
Cooking The Books Enterprise Pty Ltd

Major Project :

- **CTB Roster It**
 I led the design and development of CTB Roster It, a **.NET Windows Form application** that is used to manage staff-rostering. As part of the application, I built a lot of custom-reports using **Crystal Report** to help the user monitor the roster easily. In addition, I also continuously maintained and optimized the **SQL-CE and SQL Server databases** that are used by this application. One of the biggest achievements that I made on this project was when building its integration point with **MYOB**, which allows the user to sync the staff-salary-expenses.

Responsibilities:

- Developing and maintaining (**ASP & ASP .NET based**) **company website**, also few others - that are specifically designed for the clients.
- Creating reports for rostering purposes using **Crystal Report**.
- Maintaining and optimizing our database (**SQL Server**).
- **Providing help to our users & partners** with the issue they face in our software.
- Troubleshooting and fixing **bugs**.

2008 - 2009

**Swinburne ITS Programming Help Desk
Swinburne University of Technology**

Responsibilities:

- **Mentoring and tutoring students** on how to cope with their IT subjects, assisting them in understanding lecture notes, tutorials and answering laboratory questions.
- **Providing insight and ideas** to guide students to solve their programming problems.
- Helping students to **debug programs** and **eradicate errors**.

.: ACHIEVEMENT HISTORY

2009

- Awarded ***The Most Outstanding Final Year Student in the Master of Information Technology in 2009*** at Swinburne University of Technology
- Awarded ***Highest Achieving Student in "Advanced .NET Programming" subject*** at Swinburne University of Technology
- Awarded ***Highest Achieving Student in "Advanced Java" subject*** at Swinburne University of Technology
- Awarded ***Highest Achieving Student in "Web Application Architecture" subject*** at Swinburne University of Technology

2008

- Awarded ***Highest Achieving Student in "Database Performance Issues" subject*** at Swinburne University of Technology
- Awarded ***Highest Achieving Student in "Database Management System" subject*** at Swinburne University of Technology
- Awarded ***Highest Achieving Student in "Web Programming" subject*** at Swinburne University of Technology
- Awarded ***Highest Achieving Student in "Programming In Java" subject*** at Swinburne University of Technology

2007

- Awarded ***Best Graduate In The Year of 2007*** for academic achievement for ***Advanced Diploma of IT*** at Institut Sains Terapan dan Teknologi Surabaya

.: CERTIFICATION

2018 Amazon Web Services Developer Associate

.: PROFESSIONAL DEVELOPMENT

2007 Cisco Networking CCNA 1

2007 Cisco Networking CCNA 2

2007 Oracle Database 10G : Administration Workshop 1

.: PROFESSIONAL MEMBERSHIP

2009 - present Golden Key Honor Society at Swinburne Chapter

2008 – present Australian Computer Society

2008 - 2013 Hawthorn Toastmasters Speech Club