

SUMMARY

Software engineer with 5 years of professional programming experience and broad knowledge of backend systems and databases. Interested in backend positions with an emphasis on high volume processing.

EXPERIENCE

Leap Legal Software Backend .NET Engineer

Nov 2016 – Present
Sydney, Australia

- ❖ Found and fixed critical SQL bugs in the shard migration tool, saving up to 4 hours per firm when migrating data
- ❖ Rewrote document preview system and added additional file types to be cached, improving cache hits by 10%
- ❖ Saved 5% of AWS infrastructure costs per quarter by moving multiple applications logs from disk to SumoLogic
- ❖ Introduced Flyway for database deployments, saving up to 30 minutes per database deployment

PricewaterhouseCoopers (PwC) .NET Developer & Lead SQL Developer

Jan 2013 – Aug 2016
Sydney, Australia

- ❖ Initiated, prototyped and architected the Cross-Browser project – a 2-year long project to bring existing software up to modern web standards
- ❖ Rewrote SQL queries and fixed database indexes, improving performance by up to 100%
- ❖ Subject-matter expert on SQL performance tuning and technical code reviewer for backend and middle tier code (25+ Developers)
- ❖ Identified new application bottlenecks by load testing main application software using JMeter and Visual Studio Load Test
- ❖ Architected and built software to manage the movement of Enterprise data using SQL Replication and SSIS
- ❖ Automated various business process through PowerShell and Perl saving up to 30 minutes during deployments
- ❖ Created a framework for consistent practices to be followed by writing a backend and middle tier coding standards document

Academia Sinica Intern Ruby on Rails Developer

Sept 2010 – Feb 2011
Nov 2011 – Feb 2012
Taipei, Taiwan

- ❖ Introduced Atlassian's FishEye for SVN Commit visualizations resulting in better project planning
- ❖ Improved accessibility for application admin webpage making the overall system more user friendly

Gold Arch International Preschool Full Stack Developer

Aug 2007 – Aug 2008
Guangzhou, China

- ❖ Liaised with client to gather business requirements and built Gold Arch Preschool's first ever website
- ❖ Built web form on website to accept school admission forms, resulting in an increase in school enrollment

OPEN-SOURCE PROJECTS

DJI Android Mobile SDK <https://github.com/jaygurnani/Android-GSDemo-GoogleMap>

Major feature additions

- ❖ Add features to save energy consumption and flight trajectory data gathered from SDK into SQLite
- ❖ Automated drone waypoint movements

SumoLogic – Automated Application Logging <https://github.com/SumoLogic/sumologic-net-appenders>

Major bug fixed

- ❖ Fixed critical bug found in sample code – Pull requests accepted

Flyway – Automated database deployment <https://github.com/flyway/flyway>

Found minor bug

- ❖ Found bugs related to SQL comments being deleted from the deployment process – Discussion ongoing

EDUCATION

MASTER OF INFORMATION TECHNOLOGY (With Excellence)

- ❖ High Distinction Average (Top 9% in class)
- ❖ Key Area of Focus: Big Data Technologies

*University of New South Wales
Sydney, Australia
July 2015 – Nov 2016*

BACHELOR OF SCIENCE (Computer Science)

- ❖ Credit Average (Top 50% in class)

*University of New South Wales
Sydney, Australia
Aug 2009 – Nov 2012*

CERTIFICATIONS

Microsoft 70-461: Querying SQL Server

Score: 91/100

IKM Test: Microsoft .NET Framework 4.5 Programming using C#
Algorithms (Coursera)

Score: 82/100

LANGUAGES

English
Mandarin Chinese
Hindi

*Native fluency
Professional fluency
Elementary fluency*

TECHNOLOGIES

.NET (C# and VB.NET) and Java 7/8

- ❖ General software design - Object Oriented based design and Enterprise application architecture
- ❖ Web application development and CSS
- ❖ Algorithmic design - Space and time complexity analysis

SQL

- ❖ MS SQL Server Development - T-SQL and Stored Procedures
- ❖ Query performance tuning
- ❖ FlywayDB for automated database deployments

JavaScript

- ❖ Front-end development using Angular 1 and jQuery

Scripting

- ❖ Python, Perl and PowerShell for automating technical and business processes

AWS Services

- ❖ Expertise in CloudSearch, SQS and DynamoDB

TECHNICAL ARTICLES

❖ **Async and Await Operations**

<https://jaygurnaniblog.wordpress.com/2017/05/19/async-and-await-operations>

❖ **Lucene Parsing Engine in AWS with special characters**

<https://jaygurnaniblog.wordpress.com/2017/05/03/lucene-parsing-engine-in-aws-with-special-characters>