

SUMMARY

Software engineer with 6 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

London, United Kingdom

Sydney, Australia

- ❖ Migrated over 3000 firms from an EC2 SQL instance to RDS, saving up to \$5,000 per year in AWS hosting costs
- ❖ Modified tools to save 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
- ❖ Architected and built document searching abilities using AWS CloudSearch without adding additional load to the SQL database

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)
- ❖ Automated various business process through PowerShell and Perl saving up to 30 minutes during deployments
- ❖ Identified new application bottlenecks to be fixed by using JMeter and Visual Studio Load Test
- ❖ Architected and built software to manage the movement of Enterprise data using SQL Replication and SSIS

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

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

SKILLS

Methodologies

- ❖ Agile/Waterfall Software Development and Test Driven Development

DevOps and Continuous Integration Technologies

- ❖ TeamCity and GitFlow branching model for continuous integration

.NET, .NET Core and Java 7/8

- ❖ Knowledge in both .NET Framework and .NET Core - C# and VB.Net
- ❖ Software architecture – Object Oriented design and Enterprise application architecture
- ❖ Software design principles – DRY, SOLID, YAGNI
- ❖ Web application development – CSS, HTML, MVC and WebAPI 2

SQL/NoSQL

- ❖ MS SQL Server Development - T-SQL, Stored Procedures and query performance tuning
- ❖ AWS DynamoDB – NoSQL
- ❖ FlywayDB for automated database deployments

JavaScript

- ❖ Front-end development using Angular

Scripting

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

AWS Services

- ❖ Expertise in CloudSearch, SQS, S3, DynamoDB and EMR

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#

Score: 82/100

LANGUAGES

English

Native fluency

Mandarin Chinese

Professional fluency

Hindi

Elementary fluency

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>