**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**  *Nov 2016 – Present*

**Backend .NET Engineer** *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)** *Jan 2013 – Aug 2016*

**.NET Developer & Lead SQL Developer** *Sydney, Australia*

* Initiated, prototyped and architected the Cross-Brower 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** *Sept 2010 – Feb 2011*

**Intern Ruby on Rails Developer** *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** *Major feature additions*

**https://github.com/jaygurnani/Android-GSDemo-GoogleMap**

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

**SumoLogic – Automated Application Logging** *Major bug fixed*

**https://github.com/SumoLogic/sumologic-net-appenders**

* Fixed critical bug found in sample code – Pull requests accepted

**Flyway – Automated database deployment** *Found minor bug*

**https://github.com/flyway/flyway**

* 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)** *University of New South Wales*

*Sydney, Australia*

* High Distinction Average (Top 9% in class) *July 2015 – Nov 2016*
* Key Area of Focus: Big Data Technologies

**BACHELOR OF SCIENCE (Computer Science)** *University of New South Wales*

*Sydney, Australia*

* Credit Average (Top 50% in class) *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