




# Jay Umesh GURNANI

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## Senior Software Engineer

7 years of professional programming experience with a broad knowledge of backend and frontend systems. Seeking to develop these capabilities by working as a technical team lead with an emphasis on high volume processing. Capable of running global teams as a technical team lead.

### SKILLS

Programming Languages	Microsoft .NET (C#, VB.Net), JS and SQL
Microservices	Docker, RabbitMQ and ActiveMQ
Cloud Computing	AWS : CloudSearch, SQS, SNS, S3, Lambda, DynamoDB and Fargate
Frameworks	.NET Framework, .NET Core and NodeJS
Frontend	AngularJS/Angular and ReactJS
Databases	SQL & NoSQL - MS SQL Server, Stored Procedures and Performance tuning
Unit Testing	Moq, NUnit and Selenium
Methodologies	Agile/Waterfall Software Development and Test Driven Development, SCRUM
DevOps Technologies	TeamCity, Octopus Deploy and Terraform
Software Architecture	Object Oriented design, RESTful Architecture and Isomorphic Javascript
Software Design	DRY, SOLID, YAGNI and Dependency Injection

### EXPERIENCE

Present  
May 2018

**Team Lead/Senior .NET FullStack Developer | TOTALJOBSGROUP**  
**London, United Kingdom**

- Architected and built a producer & consumer microservice emailing system capable of sending 2 million emails per day
- Designed and built 4 high volume microservice systems (upwards of 1 million requests) that handled email subscriptions, job searching and event tracking for various front ends
- Travelled to overseas offices to train offsite teams in writing high performing C# code and AWS queuing technologies such as SES and SNS
- Architected and built an isomorphic React NodeJS application that came in 3 flavors : iFrame, embedded widget and a fully hosted website for 3rd party clients to integrate with and integrated these with 6 clients
- Acted in a leadership capacity by mentoring junior members of the team and helping them achieve their yearly performance objectives
- Created a continuous integration and infrastructure pipeline using Docker, AWS Fargate, Octopus Deploy, TeamCity and Terraform
- Ran SCRUM processes such as refinement, retrospective and sprint reviews
- Developed regression suite with Selenium allowing for automated regression tests and one click deployments

C# .NETCore ReactJS Isomorphic Javascript Docker AWS ActiveMQ Selenium Terraform SCRUM

May 2018  
November 2016

**.NET Developer | LEAP LEGAL SOFTWARE**  
**Sydney, Australia and London, United Kingdom**

- Improved system performance by up to 100% by analyzing and rewriting poorly performing SQL queries
- Fixed 30+ bugs with existing legacy AngularJS and WebAPI applications
- Created 20+ RESTful API endpoints using ASP.Net WebAPI
- Converted legacy .NET 4.5 web applications to .NET Core 1.1 and deployed code to production
- Architected and built document searching abilities using AWS CloudSearch without adding additional load to the SQL database
- Saved 5% of AWS infrastructure costs per quarter by moving multiple applications logs from disk to SumoLogic

C# .NET SQL ASP.Net AngularJS AWS TeamCity

August 2016  
January 2013

**.NET Developer | PRICEWATERHOUSECOOPERS (PWC)**  
**Sydney, Australia**

- Designed and built high traffic, client facing website applications using MVC 5, ASP.NET and the Razor engine
- Initiated, prototyped and architected the Cross-Brower project – a 2-year project to bring existing software up to modern web standards
- Rewrote SQL queries and fixed database indexes, improving performance by up to 100%
- Converted 4+ business specifications into functional and thoroughly tested web applications
- Automated various business processes through PowerShell saving up to 30 minutes during deployments
- Architected and built software to manage the movement of Enterprise data using SQL Replication and SSIS

VB.NET SQL ASP.Net MVC jQuery JMeter SSIS

## OPEN SOURCE PROJECTS

**2016 | DJI Android Mobile SDK | MAJOR FEATURE ADDITIONS**

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

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

Android SDK Java SQLite

**2016 | SumoLogic – Automated Application Logging | MAJOR BUG FIXED**

<https://github.com/SumoLogic/sumologic-net-appenders>

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

C#

**2016 | 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

C#

## EDUCATION

**2016 Master Of Information Technology (With Excellence)**

University of New South Wales - Sydney, Australia  
High Distinction Average (Top 9% in class)

**2012 Bachelor of Science (Computer Science)**

University of New South Wales - Sydney, Australia  
Credit Average (Top 50% in class)

## LANGUAGES

English ● ● ● ● ●  
Mandarin ● ● ● ● ●  
Hindi ● ● ● ○ ○

## CERTIFICATIONS

- Microsoft 70-461 : Querying SQL Server
- IKM : Microsoft .NET Framework 4.5 Programming using C#
- IKM : Microsoft SQL Server 2014 Programming

## SAMPLE WORK

**Live Isomorphic ReactJS Website - TotalJobsGroup**

<https://londonjobs.metro.co.uk/>

**Technical Article - Async and Await Operations**

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

**Technical Article - Lucene Parsing Engine in AWS with Special Characters**

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