Jay Gurnani

Senior Software Engineer / Engineering Manager

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SKILLS

PROGRAMMING
Go • Java • Kotlin • Typescript
• JavaScript • C# • .NET Core
• Spring Boot • NodeJs • ReactJS

SOFTWARE ARCHITECTURE
GraphQL • Object Oriented
• RESTful & Event driven architecture

CLOUD COMPUTING
AWS • Microsevices • Docker • Terraform
• Queueing (Kafka / ActiveMQ / SQS)
• Storage (OpenSearch / DynamoDB / S3)

DATABASE
SQL • NoSQL • Performance tuning

ENGINEERING LEADERSHIP
Requirements analysis • Sprint planning

METHODOLOGIES
Agile • Waterfall
• Test Driven Development • SCRUM

EDUCATION

UNSW
Master (with Excellence) of Information Technology
Sydney, Australia
High Distinction Average (Top 9% in class)

BS in Computer Science
Sydney, Australia
Credit Average (Top 50% in class)

LANGUAGES

Native proficiency:
English • Mandarin Chinese

Business proficiency:
Hindi

CERTIFICATIONS

2016 - Microsoft 70-461 : Querying SQL Server • 2021 - Udemy: Kotlin for Java Developers

OPEN SOURCE

Contributor: GraphQL-Markdown
Contributor: DJI Android Mobile SDK

EXPERIENCE

TIKTOK | Senior Software Engineer | Go
September 2024 – Present | Sydney, Australia
- Built asynchronous query engine using Spark and Kafka to query **25 Petabytes of video analytics data**
- Built event tracking metrics for the Video Quality Platform reporting on **8 billion** videos per hour across multiple geos using Clickhouse & Kafka
- Built new Singaporean version for Video Quality Platform and in under **2 weeks** due to regulatory restrictions
- Migrated **11 production dashboards** analyzing 50+ metrics for global video usage using Clickhouse

TRAINLINE | Engineering Team Lead | C#, SQL
May 2023 - June 2024 | London, United Kingdom
- Engineering team lead for 5 seniors and 5 junior developers in charge of the Ecommerce platform handling **£4.3 billion** in sales annually
- Introduced new Jira service portal to handle and triage automatically 20+ weekly technical requests improving team productivity by **10%**
- Drove feature specifications, timelines & company wide negotiations for 2 key migrations projects worth **£500,000** from SQL to AWS DynamoDB and OpenSearch
- Used performance data to split the team 2 squads with streamed priorities and OKRs to improve team focus by **20%**

ATLASSIAN | Senior Software Engineer | Kotlin, Java, ReactJS
May 2020 – May 2023 | Sydney, Australia
- Founding team member of product Compass and brought daily active users from 0 to **8000** over 3 years
- Successfully built the 'activity feed' feature which currently has **400** daily active users using GraphQL, PostgreSQL and ReactJS
- Lead public GraphQL API developer and architected over **21 mutation and 30 queries** for long term use
- Designed and built Compass and Jira 'incident issue type' sync by efficiently parsing and filtering **1 million request** per minute using minimal memory footprint
- Interim engineering manager for **7 months**, mentored 4 senior developer and 4 junior developers & conducted over 20 technical interviews

STEPSTONE GROUP | Senior Software Engineer | C#, NodeJS
May 2018 – April 2020 | London, United Kingdom

LEAP LEGAL SOFTWARE | Software Engineer | C#, Terraform
November 2016 – May 2018 | Sydney, Australia

PWC | Software Engineer | C#, SQL
Jan 2013 – July 2016 | Sydney, Australia

PUBLICATIONS

[1] M. D. A. Fotouhi and M. Hassan. Dronecells: Improving 5g spectral efficiency using drone-mounted flying base stations. *IEEE Transactions on Mobile Computing*, 2018.