Jay Gurnani

Senior Software Engineer / Engineering Team Lead

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☰ SKILLS

PROGRAMMING
• Go • Java •Kotlin • Typescript
•JavaScript • C# • .NETCore • Python
•Spring Boot •Node •ReactJS

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

AI ENGINEERING
• MCP Server

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

💼 EXPERIENCE

TIKTOK | SENIOR SOFTWARE ENGINEER | GO, PYTHON
📅 Sept 2024 – Present | 📍 Sydney, Australia
- Lead global developer for **143 global metrics** used by **130+ SREs** within the video quality department
- Built asynchronous query engine using Spark and Kafka to query **25 Petabytes of video analytics data**
- Drove and built **2 MCP** server endpoints for internal LLM access for platform video analytics
- Built event tracking metrics for the Video Quality Platform reporting on **8 billion** videos per hour across multiple geos using Clickhouse & Kafka
- Built new alarm reporting engine to process **60** global alarms across multiple geos for monitoring platform performance
- 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
- Drove feature specifications, timelines & company wide negotiations for 2 key migrations projects worth **£500,000** from SQL to AWS DynamoDB and OpenSearch
- Planned engineering team OKRs and got **2 junior engineers promoted to senior engineers within 1 year**
- Introduced new Jira service portal to handle and triage automatically 20+ weekly technical requests improving team productivity by **10%**
- 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

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

STEPSTONE GROUP | Senior Software Engineer | C#, NodeJS

May 2018 – April 2020 | London, United Kingdom

- Built a producer & consumer microservice emailing system capable of sending **2 million** emails per day emails per day
- Designed and built 4 high volume microservice systems (upwards of **1 million requests**) per day that handled email subscriptions, job searching and event tracking
- Architected and built a ReactJS 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**
- Travelled to overseas offices to train offsite teams in writing high performing C# code and AWS queuing technologies such as SES and SNS

LEAP LEGAL SOFTWARE | Software Engineer | C#, Terraform

Nov 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.