

Jay Gurnani (古杰)

Senior Software Engineer / Engineering Team Lead

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SKILLS

PROGRAMMING

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

SOFTWARE ARCHITECTURE

- GraphQL • Object Oriented
- RESTful & Event driven architecture • gRPC

AI ENGINEERING

- MCP Server

CLOUD COMPUTING

- AWS • Microservices • Docker • Terraform • Queueing (Kafka / ActiveMQ / SQS)
- Storage (OpenSearch / DynamoDB / S3)

DATABASE

- SQL • NoSQL • Performance tuning

ENGINEERING LEADERSHIP

- Requirements analysis • Sprint planning
- Customer pre-sales

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

LANGUAGES

Native proficiency:

- English • Mandarin Chinese

Business proficiency:

- Hindi

EXPERIENCE

TIKTOK | SENIOR SOFTWARE ENGINEER | GO, PYTHON

📅 Sept 2024 –Present | 📍 Sydney, Australia

- Sole overseas platform developer for **143 global metrics** used by **90+ SREs** within the video quality department
- Liaised with the US / EU and other overseas technical operators to gather requirements and convert these into **Chinese requirement documents** for CN dev teams
- Architected and built platform analytics to track **SLO, query response times and other metrics** for Video Quality Platform across 5 regions
- Drove and built **2 MCP** server endpoints for internal LLM access for platform video analytics
- Coordinated the upgrade of video quality platform codebase from 0% unit test code coverage to **42% in 4 months**
- Built asynchronous query engine using Spark, Kafka and Clickhouse to query **25 petabytes of video analytics data** in under 60 seconds

TRAINLINE | ENGINEERING TEAM LEAD | C#, SQL

📅 May 2023 - June 2024 | 📍 London, United Kingdom

- Engineering team lead for 10 engineers in charge of the Ecommerce platform handling **£4.3 billion** in ticket 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 platform development portal - Compass and brought daily active users from 0 to **8000** over 9 months
- Organised customer **10+** interviews to gather functional requirements for the 'activity feed feature' in Compass
- Successfully shipped the 'activity feed' feature to show software lifecycle for a service to **400** daily active users using GraphQL, PostgreSQL and ReactJS
- Lead public GraphQL API developer and **wrote GraphQL linter** to automate GraphQL validation across the company
- 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 8 developers & conducted over 20 technical interviews for team hires

CERTIFICATIONS

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

OPEN SOURCE

Contributor: GraphQL-Markdown
Contributor: DJI Android Mobile SDK

PERSONAL PROJECT

Launched own Solana coin to learn more about Crypto

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
- 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 & NextJS 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.