Jay Gurnani (古杰)

E SKILLS

PROGRAMMING

Golang • 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 • Microsevices • Docker • Terraform

- Queueing (Kafka / ActiveMQ / SQS)
- Storage (OpenSearch / DynamoDB / S3)

DATABASE

SQL • NoSQL • Performance tuning

ENGINEERING LEADERSHIP

Requirements analysis • Sprint planning • Customer pre-sales • People management

METHODOLOGIES

Agile • Waterfall

• Test Driven Development • SCRUM



UNSW

MASTER (WITH EXCELLENCE) OF INFORMATION TECHNOLOGY

Svdnev, Australia

High Distinction Average (Top 9% in class)

BS IN COMPUTER SCIENCE Sydney, Australia



Native proficiency: English • Mandarin Chinese

Business proficiency: Hindi

EXPERIENCE

TIKTOK SENIOR ENGINEER | GOLANG, PYTHON

■ Sept 2024 - Present Sydney, Australia

Developer for the Video Quality Platform team reporting on global video analytics for internal use

- Sole overseas developer for **143 global metrics** used by **90+ SREs** within the technical operations team
- Worked with the US / EU technical operators to convert requirements into **Chinese documentation** for CN dev teams
- Designed and built analytics to track **SLO**, query response times and other metrics for Video Quality Platform across 5 regions
- Upgraded the platform codebase from 0% unit test code coverage to 42% in 4 months and built 2 MCP server endpoints for LLM access
- 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

- Engineering team lead for 10 engineers 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

Founding engineer for the developer platform portal 'Compass' which is used to manage software services in one tool

- Brought daily active users in 'Compass' 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
- 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



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

OPEN SOURCE

Contributor: GraphQL-Markdown Contributor: DJI Android Mobile SDK



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 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

= 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.