Arjun Govindan

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Skills

Languages: Python, TypeScript, JavaScript, Java, C++, SQL
Frontend: React, Next.js, HTML, CSS
Backend: FastAPI, Django, Flask, Node.js, Express, REST APIs, Microservices
Databases: PostgreSQL, MongoDB, MySQL, Redis
Cloud & DevOps: Docker, Kubernetes, Azure, GCP, CI/CD Pipelines
Infrastructure & Systems: Distributed Systems, System Design
Tools & Platforms: Git, Linux, Pytest
Computer Science Fundamentals: Data Structures, Algorithms, Object-Oriented Programming, Low-Level Design
Development Practices: Agile, Test-Driven Development

Experience

Senior Software Engineer, **Quarks** – Bangalore, India   Sep 2024 – Present

Falabella — Recommendations Platform
(Python, FastAPI, PostgreSQL, Redis, GCP, Docker, Kubernetes)

  – Designed and built a new backend **ranking orchestration service (Rank V2)** to aggregate results from multiple recommendation engines, improving **performance**, modularity, and **scalability** of recommendation delivery.
  – Identified and resolved **performance bottlenecks** in the ranking pipeline by implementing **asynchronous execution**, **caching**, and **query optimizations**, reducing average response latency to **sub-100ms** under production load.
  – Improved **system reliability and release safety** by implementing fallback mechanisms and expanding automated test coverage from **73% to 97%**, reducing regression risk in production deployments.

Autodesk — Developer Infrastructure Platform
(Python, Azure, React)

  – Developed and maintained **Azure-based infrastructure pipelines** to automate VM image provisioning, reducing provisioning time by **50%** and improving developer onboarding speed.
  – Built a **React-based internal tool** for self-service VM provisioning, eliminating manual infrastructure requests and significantly improving developer productivity.

Software Engineer, Kyro – Chennai, India   May 2022 – Sep 2024
(FastAPI, React.js, SQL, CosmosDB, Azure Container Service, Azure API Gateway, Azure EventGrid, Azure Kubernetes Service, Azure Static App, Azure Function App)

Forms and Report

  – Led the **design** and **development** of a forms experience as a **founding engineer**, enabling users to create custom forms, record submissions, and **generate reports**.
  – Owned and shipped the feature **end-to-end**, building both backend services and the **frontend interface using React**
  – This feature has resulted in the submissions of over **150,000+** reports, with **230,000+** images.
  – Implemented **permissions management** for forms and reports, fortifying security and optimizing access control.
  – Implemented a comprehensive suite of end-to-end **unit tests** using **Pytest**, achieving **98%** coverage for the forms functionality.
  – Engineered a standalone application to **monitor** report submissions, achieving a **99%** success rate in **debugging** and **rerunning** failed actions.

Projects and Tasks

– Pioneered the development of **microservices** for project and task management, overseeing creation, testing, deployment, and operational readiness. These microservices were utilized by **95% of customers**.

Event Streaming and Auditing

– Implemented real-time **event streaming** for Kyro using MongoDB **ChangeStreams** and **Azure Event Grid**, logging over **50,000+** events in a day.

Operations and Tooling

– Spearheaded **DevOps** efforts to optimize and administer deployment processes, including implementing a **CI/CD pipeline** to automate deployments across various environments.
– Engineered internal tools for development acceleration, including **template generation** and **script execution** for data migration, saving development time by **20+ hours** every week.

Programmer Analyst, Cognizant – Chennai, India   Dec 2020 – Apr 2022
(Django, Flask, SQL, AWS, React)

Data Warehousing and APIs

– Utilized **SQL** to extract, transform, and load data for **data warehousing** and analysis, ensuring data accuracy and integrity.
– Developed internal **RESTful APIs** using **Flask** to provide efficient access to critical data metrics for internal teams.

Projects

- **RuptrAPI** (github)
  Built a backend system to analyze **OpenAPI** specifications, detect **breaking API changes**, and identify impacted **downstream consumers** in **microservice**-based architectures through contract diffing and **impact** analysis.

Education

Vimal Jyothi Engineering College, B.Tech(Hons.) in Computer Science &   2016 – 2020
Engineering

- CGPA: 8.61