

Arjun Govindan

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Skills

Languages: Python, C++, Java, Typescript, Bicep

Technologies: Azure, GCP, MongoDB, MySQL, PostgreSQL, Docker, Kubernetes, Git, REST APIs, Jinja, Redis, Auth

Frameworks: FastAPI, Django, Flask, Next.js, Node.js, React, Express, Pytest

Concepts: Microservices, Agile

Experience

Senior Software Engineer, Quarks – Bangalore, India

Sep 2024 – Present

Falabella (Recommendations Team)

(FastAPI, PostgreSQL, Redis, GCP, Docker, Kubernetes, Pytest)

- **Designed and delivered** the **Shop the Look** Experience with **<100ms latency**, enabling dynamic product bundles based on user interaction.
- Currently driving the development of **V2 Rank APIs** for the Widget Service to enhance personalization by **contextually ranking** product recommendations across widget placements.
- Led the revamp of the **test infrastructure** for a production-scale backend, increasing code coverage from **73% to 97%**.

Autodesk (Infrastructure Team)

(Python, Azure, Jenkins, React, Ruby)

- Developed and maintained **Azure pipelines** for VM image generation across Fusion, FusionAutomation, FusionCI, and Inventor, reducing **provisioning time** by 50%.
- Built a **React-based internal tool** for on-demand VM provisioning, improving developer efficiency and halving setup times.
- Managed shared **Jenkins infrastructure** provisioning over **5,000+ nodes** monthly with **99% uptime**, ensuring stable developer workflows.

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**.
- 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.

Education

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

2016 – 2020

- CGPA: 8.61