# 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