

Sathvika Kondamadugu

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Summary

Full-stack Software Engineer with experience delivering large-scale, high-impact consumer-facing products across cloud-native platforms, front-end interfaces, and backend services. Experienced in full SDLC, Agile workflows, CI/CD, and DevOps practices. Strong hands-on expertise in Python, Java, Node.js, Spring Boot, AWS, and PostgreSQL with experience in delivering robust solutions across engineering, data, and platform teams.

Education

Master of Science in Computer Science, University of Illinois Chicago

Illinois, USA

Bachelor of Technology in Computer Science, Malla Reddy College of Engineering & Technology

Hyderabad, India

Technical Skills

Languages: Python, TypeScript, Java, JavaScript, SQL, Go, C++, Bash, HTML, CSS

Frameworks & Tools: React, React Native, Node.js, Django, Flask, FastAPI, GraphQL, gRPC, Redux, Material-UI, Firebase

Cloud & DevOps: AWS (Lambda, S3, ECS, CloudWatch), Azure (AKS), Docker, Kubernetes, Terraform, GitHub Actions

Data & ML: PostgreSQL, BigQuery, Kafka, Redis, Pandas, PySpark, Scikit-learn, TensorFlow, Snowflake

Testing: Pytest, Postman, Cypress, Selenium, JUnit

Concepts: Full-stack development, System Design, RESTful APIs, Microservices, Responsive UI, API-frontend integration, Agile SDLC, Event-driven Architectures, OAuth2, Product lifecycle delivery

Experience

Software Engineer, ENGWorks Global, Chicago, IL

May 2024 – Present

- Built and orchestrated microservices using **Node.js** and Helm to unify data pipelines across departments; enabled automated reconciliation, improving accounting accuracy and reducing processing time by **75%**.
- Led full-stack development of a scalable analytics product used by internal teams across 4+ markets, leveraging **Node.js**, **Spring Boot**, and **React**, reducing defect detection time by **35%** and supporting analysis of over **1000+ engineering models**.
- Migrated infrastructure from AWS to **Azure Kubernetes Service (AKS)** with **PgBouncer**, increasing request throughput by **40%** and reducing API latency from 800ms to 470ms under load.
- Integrated **CI/CD pipelines** via GitHub Actions with IaC using **Terraform** to standardize environment provisioning and deployment.
- Developed real-time data processors with **Kafka** and **Pandas** that scaled to ingest and analyze over **1 million records/week** for live engineering dashboards.
- Collaborated with Autodesk to refactor legacy **C++ CAMduct post-processors**, increasing build consistency by **30%** and enabling compatibility with Visual Studio 2022 and future machine logic extensions.

Full Stack Developer, Hitch This Pvt Ltd, Hyderabad, India

Aug 2022 – Jul 2023

- Developed features for a multi-tenant SaaS using **React**, **Django**, and **GraphQL**, increasing customer conversion by **22%**.
- Built mobile-responsive UIs with **React** and integrated backend services with **JWT** auth and PostgreSQL.
- Refactored monolith into **Docker**-based microservices on **ECS**, reducing deployment time by **50%**.
- Enhanced CI/CD and secrets management using **GitHub Actions** and **AWS Secrets Manager**.

Software Engineer Intern, Eamvey Technologies, India

Jan 2021 – Jul 2022

- Deployed Spring Boot APIs integrated with **MySQL**, Angular, and GCP; used Helm and Kubernetes for versioned rollouts.
- Supported backend delivery within a structured SDLC process transitioning from **Waterfall to Agile**, contributing to design, QA, and deployment cycles.
- Built log analytics pipelines with **ELK stack**, improving SLA-based alerting for devops support teams.
- Containerized legacy systems and reduced cost by **15%** via optimized horizontal pod autoscaling.

Projects

Auto-Attendance System (Flask, PostgreSQL, AWS)

- Developed a role-based student attendance system with **Flask**, **PostgreSQL**, and Bootstrap UI.
- Deployed on EC2 with automated backups and API security; included **Postman test suite** for QA.

Collaborative Music Queue App (React, Django, Spotify API)

- Built a real-time collaborative music player using **React**, **Django**, and Spotify OAuth + REST.
- Implemented Redux state sync, Material-UI components, and Firebase live updates.