

# Satvik Akkaraju

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## SUMMARY

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Software Engineer with 2+ years of experience in backend and distributed systems. Focused on building end-to-end features with a high taste for simple, maintainable code over clever abstractions.

## EXPERIENCE

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### Associate Software Developer | InterviewBuddy

Jan. 2023 – Apr. 2024

Visakhapatnam, India

- Collaborated directly with product to identify bottlenecks, reducing API latency by 50% through query optimization and rethinking data abstractions.
- Designed and lived with the consequences of an event-driven architecture that improved system resilience and throughput under scale.
- Built a custom interview playback web player and revamped the UI by replacing PrimeNG with custom in-house web components, improving consistency and long-term maintainability.
- Debugged production issues using profiling, logs, and RCA workflows; deployed Grafana to aggregate logs across frontend and microservices, improving debugging visibility.
- Built CI/CD pipelines with Docker + Git + automated testing, cutting deployment time by 40%, and established runbook culture to keep the system maintainable at scale.

### Software Engineer Intern | AlcoveX Product Studio

Feb. 2022 – Dec. 2022

Visakhapatnam, India

- Built and shipped frontend features using Angular + TypeScript, integrating with backend REST APIs and refactoring legacy implementations using maintainable MVC/Observer patterns.
- Automated validation and deployment tasks using Python + Bash, reducing repetitive manual work and improving release consistency across environments.
- Collaborated in Agile ceremonies with strong ownership and iterative delivery focus across product and engineering teams.

## PROJECTS

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### Uptime — Uptime Monitoring SaaS | Node.js, Fastify, PostgreSQL, GCP Cloud Run, Next.js, Razorpay

- Solo-founded uptime monitoring SaaS — HTTP monitoring, email and webhook alerting, public status pages, built on Fastify + Cloud Run.
- Designed Cloud Tasks-based dispatch over Fastify + Cloud Run with PostgreSQL range partitioning, eliminating Redis and cutting infrastructure cost by ~₹700/month.

### Food Ordering & Delivery Ecosystem | Node.js, Express, Angular, PostgreSQL, GraphQL

- Architected an end-to-end three-app ecosystem for customers, vendors, and delivery partners with role-based access control and scalable order workflows.
- Optimized data fetching using Hasura GraphQL, reducing frontend complexity and ensuring efficient, real-time synchronization.

### Multithreaded Network Hangman | C, Socket Programming

- Designed a high-concurrency TCP client-server architecture in C with low-level synchronization and memory management, handling multiple simultaneous players with fault tolerance.

## EDUCATION

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### Illinois Institute of Technology

Graduate Studies in Computer Science — Database Systems

Chicago, IL, United States

Aug. 2024 – May 2025

### Gandhi Institute of Technology and Management

Bachelor of Technology in Computer Science and Business Systems

Hyderabad, Telangana, India

Jun. 2019 – Apr. 2023

## SKILLS

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**Languages:** JavaScript (ES6+), TypeScript, Python, SQL, C, Bash

**Frontend:** React, Angular, HTML5, CSS3/Tailwind CSS, Web Components

**Backend:** Node.js, Fastify, Express.js, REST APIs, WebSockets, Microservices, Event-driven Systems

**Databases & Tools:** PostgreSQL, MySQL, Hasura GraphQL

**DevOps & Cloud:** Docker, CI/CD, Git, Linux/Unix, AWS (EC2, S3, Lambda), Google Cloud Platform, Grafana

**Engineering:** System Design, DSA, Performance Optimization, Distributed Systems