

# Satvik Akkaraju

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Back-end engineer, nearly 3 years in FinTech and HR-tech: distributed systems for payments, data pipelines and video.

## TECHNICAL SKILLS

**Programming Languages:** Go, Python, JavaScript/TypeScript, Java, C, C++, Bash, SQL  
**Backend Technologies & Frameworks:** Node.js, NestJS, Express.js, Knex.js, RESTful APIs, GraphQL (Hasura), Microservices Architecture, Apache Kafka, Casbin (RBAC), Caching (Redis)  
**Frontend Technologies:** Angular, React, CSS (Flexbox, Grid, Responsive Design)  
**Databases:** PostgreSQL (performance tuning: materialized views, partial indexes), MySQL, MongoDB, DynamoDB, Redis  
**Cloud, DevOps & Infrastructure:** AWS (Lambda, EC2, S3, RDS, ECR), SST, Google Cloud Platform (GCP), Docker, Kubernetes, Terraform, CI/CD Pipelines, GitHub Actions, OpenTelemetry (SigNoz), Infrastructure as Code (IaC), Git  
**Operating Systems:** Linux/Unix

## EXPERIENCE

- Software Engineer** Apr 2026 – Present  
*StackWealth* Mumbai, India
- Eliminated 3 hours/week of manual subscription activations by automating Razorpay payment-link processing (HMAC verification, duplicate-safe handling, reconciliation); proposed CRM-based link creation, leaving onboarding to Sales alone.
  - Scored every user's debt health (EMI-to-income) from 6 months of bank data via RBI's Account Aggregator framework, by designing an event-driven Python/Kafka service that rebuilds each user's loans from EMI payments.
  - Personalized portfolios for every new user with a 0–100 risk score mapped to 5 portfolio levels, via a risk-profiling engine over a 12-question flow stored as data, so product can change it without a deploy.
  - Cut the back-end team's involvement in routine CRM updates by shipping 14 REST APIs for a portfolio tracker priced on live NSE data, role-based access for Support and Investment teams, and a churn-alert workflow.
  - Automated GST compliance: state-based CGST/SGST/IGST invoicing with GSTIN and the fortnightly report to Accounts and the COO, plus stock-split handling, NSE/BSE index ingestion, and stop-loss alerts across 4 AWS Lambda jobs.
- Associate Software Developer** Jan 2023 – Apr 2024  
*InterviewBuddy* Visakhapatnam, India
- Built the recording pipeline for live video interviews: grouped Twilio participant tracks, stitched audio and video with ffmpeg, and stored them in S3-compatible storage, with attendance tracked from Twilio callbacks.
  - Cut release cycles by 40% by setting up CI/CD with GitHub Actions that builds and tags Docker images and deploys them through Portainer to separate QA and staging environments.
  - Reduced API latency by 25% and query latency by about 30% by restructuring the queries behind the core interview APIs.
  - Integrated Razorpay payments and built booking flows and email notifications for one-on-one, one-way and custom mock interviews, as Express services behind Hasura actions.
  - Added timezone support and spreadsheet-based bulk interview creation for B2B clients; mentored 4 interns.
- Software Engineer Intern** Jan 2022 – Dec 2022  
*AlcoveX Product Studio* Visakhapatnam, India
- Moved 10+ modules of Datatrove, a campus-placement platform, from REST to Hasura GraphQL, and built its placement-drive workflow (eligibility rules, analytics, bulk resume export).
  - Shipped Datatrove's Ionic/Angular student-profile app (19 sections, GraphQL via Apollo) in 4 weeks.

## PROJECTS

- Kafui - Desktop Client for Apache Kafka** | *Java, Spring Boot, Apache Kafka, Angular, Tauri, GitHub Actions*
- Built a local-first Kafka desktop app (manage clusters and topics; browse, produce, live-tail messages): an Angular UI in a Tauri shell over a bundled Spring Boot agent (REST/SSE), shipped for 5 OS/arch targets via GitHub Actions.
- DBMap - Database Schema Version Control** | *PostgreSQL, Shell Scripting, Golang*
- Architected a CLI-based schema migration tool in Go for PostgreSQL, demonstrating strong expertise in resilient database engineering and ensuring consistent data integrity across scalable, production-grade systems.
- TeXume** | *NestJS, Angular, Python, Gemini API, Docker, Google Cloud Platform*
- Developed a cloud-native, full-stack resume generation platform on Google Cloud Platform, leveraging containerized workflows to enable seamless end-to-end processing and responsive user experiences.
- Ligit** | *Java, C, Next.js, Docker*
- Designed and implemented a lightweight, self-hosted Git server, applying optimized backend architecture that reduced memory consumption by approximately 60% compared to existing solutions.

## EDUCATION

- Illinois Institute of Technology** Chicago, IL, United States  
*Graduate Coursework in Computer Science (Database Systems Concentration)* 2024 – 2025
- Gandhi Institute of Technology and Management** Hyderabad, Telangana, India  
*Bachelor of Technology in Computer Science and Business Systems* 2019 – 2023