

Aaditya Joshi

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SUMMARY

Software Engineer with 4 years of experience building scalable backend systems, data products, and customer-facing features. Proven track record of driving end-to-end product development, from engineering AI-powered workflows with Claude and PydanticAI to optimizing backend APIs and large-scale data pipelines. Currently pursuing an M.S. in Computer Science at Georgia Tech, with interests in machine learning and scalable distributed systems.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY | *M.S. COMPUTER SCIENCE (GPA: 4.0)*

Aug 2025 - Dec 2026

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, PUNE | *B.TECH, COMPUTER SCIENCE & ENG.* Jun 2021

EXPERIENCE

RIDECCELL | *LEAD ENGINEER*

Jul 2021 - Jul 2025

- Engineered "Insight Builder" using Claude and PydanticAI to automate SQL and chart generation through a multi-step verification loop, **reducing dashboard creation time by 60%**.
- Architected and deployed automated **Dagster** pipelines to process daily and hourly incremental updates across **100,000+ vehicles**, transforming gigabytes of raw data into a curated dataset to power new data-driven fleet management products.
- Led end-to-end feature development for **core fleet management products** - car sharing, ride sharing, and intelligent maintenance automation - owning full backend design and delivery across multiple production releases.
- Led global on-site platform launches (Germany, Spain, Belgium) as primary technical lead, **accelerating market entry and regional adoption**.
- Owned backend rearchitecture, migrating legacy monoliths by upgrading close to **200 outdated Python** libraries and packages, hardening systems against security vulnerabilities with minimal downtime.
- Reduced API latency by 75%** (16s to 4s) via Django ORM optimization, targeted indexing, query profiling, and materialized views for read-heavy workloads.
- Maintained 99.999% uptime** and resolved SEV1/SEV2 incidents in **<1 hour** by managing UAT, deployments, and CI/CD pipelines.
- Managed a pod of 3 full-time engineers and mentored 2 interns to full feature ownership within 6 weeks, shipping multiple production releases.

CONTROL TECH SYSTEMS | *R&D INTERN*

Jan 2021 - Mar 2021

- Developed an Arduino-based electric roll press proof-of-concept using C/C++ firmware; then designed and built new PLC-controlled machines for the laundry industry, demonstrating feasibility for commercial production
- Conducted market research to identify optimal components, ensuring cost-effectiveness and enhanced product durability.
- Researched and evaluated the viability of electrical components using datasheet analysis and prototype testing, selecting parts that met performance standards and increased system reliability

FINIQ CONSULTING INDIA PVT LTD | *SDE INTERN*

Apr 2020 - Jun 2020

- Built a trader-focused landing page with JavaScript and Chart.js, enabling real-time chart updates that helped users monitor market changes more quickly
- Developed "Code to Flowchart" tool by customizing library outputs to simplify client explanations. Designed REST APIs with Spring Boot, JPA, and MySQL, adding multithreaded schedulers and Redis caching; the APIs handled increased request volume without performance loss
- Developed core Java APIs with Hibernate and the Spring Framework, and integrated Kafka for asynchronous processing, which made data flow between services more efficient

PROJECTS

Making the Web Accessible for All | <https://someity.tech/> | *Someity*

- Winner MLH Hack-accessible hackathon. Winner Pitch Perfect. Chrome based extension to make websites more a11y-friendly without changing any source code. **140+ users from 28 countries**.

Open Source Contributor | Python, Django, REST APIs | *Weblate*

- Contributed to the core codebase of Weblate (6k+ stars) by implementing a new API endpoint to retrieve comment lists for translation units, enhancing programmatic access for developers.
- Diagnosed and resolved local development environment configuration issues, improving documentation for future contributors and streamlining the onboarding process.

SKILLS

- PROGRAMMING:** Python, C/C++, JavaScript, Java
- BACKEND/FRAWORKS:** Django, DRF, FastAPI, Spring Boot, Hibernate, Celery, RabbitMQ
- DATABASES:** PostgreSQL, Redis, MySQL, MongoDB
- CLOUD/DEVOPS:** AWS, Docker, GitHub Actions, Kubernetes, Kafka, Agile
- FRONTEND:** React, Chromium
- AI/ML:** PydanticAI, Anthropic Claude, ChatGPT, MCP, Pytorch, RAG, LLM, LangChain

AWARDS

- Ridezilla "Youngest Lead Engineer"
- ACM-ICPC 2020 (935/3200)
- MLH Hackaccessible (3rd)
- Smart India Hackathon 2020 Finalist