

Aaditya Joshi

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Summary

Lead Engineer specializing in high-performance backend architecture and generative AI integration. Proven expert in modernizing legacy Python systems, optimizing API latency at scale, and driving global platform launches. Dedicated to building robust, high-availability solutions that accelerate product delivery.

EXPERIENCE

RIDECELL | *LEAD ENGINEER*

Jul 2021 - Jul 2025

- Developed "Insight Builder" by integrating Claude and PydanticAI to translate natural-language questions into optimized SQL for chart suggestion and analysis, cutting dashboard/chart generation turnaround by 60%.
- Led global launches of Ridecell's Vehicle Asset Management and Carsharing platforms, deploying on-site in Germany, Spain, and Belgium, and served as the primary technical and customer-facing point of contact, which enabled rapid market entry and increased platform adoption across regions
- Owned backend rearchitecture, migrating legacy monoliths by upgrading close to 200 outdated Python libraries and packages, hardening systems against security vulnerabilities with minimal downtime.
- Optimized API and database performance, reducing API latency by 75% (16s to 4s) through advanced algorithm tuning and Django ORM query optimization, and accelerating read-heavy workloads via targeted indexing, materialized views, and query profiling.
- Led UAT and production deployments, ensuring 99.999% system uptime via robust CI/CD pipelines, and resolved SEV1/SEV2 incidents with <1hr average response time through rapid root cause analysis.
- Mentored 2 interns to full feature ownership within 6 weeks, resulting in 3 production releases shipped during their 3-month internships.

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 using Hibernate and the Spring Framework, integrating Kafka for asynchronous processing, which streamlined data flow between services

PERSONAL PROJECT

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

- Winner Hack-accessible hackathon. Winner Pitch Perfect.
- Chrome based extension to make websites more ally-friendly without changing any source code. 140+ users from 28 countries.
- Skills: Javascript, Chromium, Automatic Speech Recognition, ally.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY | *M.S. COMPUTER SCIENCE*

Aug 2025 - Dec 2026

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

SKILLS

- **PROGRAMMING:** Python, C/C++, JavaScript, Java
- **Backend/Frameworks:** Django, DRF, FastAPI, Spring Boot, Hibernate
- **Databases:** PostgreSQL, Redis, MySQL, MongoDB
- **Cloud/DevOps:** AWS, Docker, GitHub Actions, Kubernetes, Kafka
- **Frontend:** React
- **AI/ML:** PydanticAI, Anthropic Claude, ChatGPT, MCP, Pytorch

AWARDS

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