

Akshay Rathod

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SUMMARY

Software Developer with **3 years of experience** delivering scalable web apps and IoT solutions. Expert in Python/FastAPI, AWS and AI-driven automation that **cuts manual effort 90 % and boosts API throughput 30 %**. Hackathon winner and club president thriving in agile teams.

Core Competencies: Python | FastAPI | Django | Angular | REST APIs | PostgreSQL | AWS | Docker/CI-CD | Redis | Selenium | IoT/BCI | TDD | Agile/Scrum | Leadership

PROFESSIONAL EXPERIENCE

Software Developer Stigya Organics Pvt. Ltd., Navi Mumbai *Jun 2024 – Present*

- **Reduced API latency 30 %** by refactoring FastAPI endpoints to async I/O.
- **Lifted test coverage 55 %→80 %** via Dockerised GitHub Actions pipeline.
- **Processed 200 K+ tasks/month** with Celery + Redis at 99.9 % uptime.
- **Cut manual QA hours 90 %** through Selenium regression suite.
- **Built AI chat assistant handling 60 % of tickets**, raising CSAT to 4.8/5.

IoT Development Intern CerebralX, Chandigarh *Feb 2023 – Apr 2023*

- **Achieved 98 ms latency** in CircuitPython BCI firmware.
- **Designed secure MQTT protocol** controlling 10 devices; demoed at TechNext Expo.

Junior Software Developer (Part-time) Cloud Security Alliance, Bengaluru *Mar 2022 – Sep 2022*

- **Optimised analytics pipeline 4×** on 5 GB datasets.
- **Automated log sanitisation** saving the infosec team ~8 hrs/week.

Systems Manager (Freelance) Government of Maharashtra, Aurangabad *May 2020 – Jun 2020*

- **Mitigated 12 high-severity CVEs** and raised server uptime to 99.9 %.

SELECTED PROJECTS

- **SAFARI – Smart Home Platform:** Voice-controlled suite deployed to **5 homes**, cutting energy use 15 %.
- **Mask-Detection Access Gate:** Jetson Nano vision system at **500 fps** for campus entry control.
- **Time-Table Scheduler:** Django + OR-tools; generates timetables in <3 s.
- **2BOS – Tech for Good:** IoT kiosk exchanging recyclable waste for food tokens; Netscout Hackathon 2nd.

EDUCATION

B.E. Computer Engineering — Savitribai Phule Pune University 2024
Relevant coursework: DSA, DBMS, Networks, OS, AI/ML, Big Data Analytics.

CERTIFICATIONS

Oracle **Java SE 11** | AWSome Day | Udemy: ML & DS; Ethical Hacking; AI A-Z | IIIT-B Cybersecurity Exec Programme

LEADERSHIP & ACHIEVEMENTS

- **President, Ingenius Coders' Club** — grew membership 3×; ran monthly coding bootcamps.
- Hackathons — 2nd place, Netscout "Tech for Good" 2022; finalist, Microsoft & Manthan..

TECHNICAL SKILLS

Languages	Python, Java, C++, JavaScript/TypeScript, SQL, PHP
Frameworks/Tools	FastAPI, Django, Angular, Selenium, Celery, Redis, Docker, Git
Databases	PostgreSQL, MySQL, SQLAlchemy, Alembic
Cloud & DevOps	AWS (EC2, S3, Lambda), Linux, CI/CD, Terraform (basic)
IoT & Hardware	ESP8266/NodeMCU, Arduino, Raspberry Pi, Blynk, MQTT