

Richard Samuel

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SUMMARY

Dedicated developer with a strong foundation in data structures, object-oriented programming, and backend systems. I have experience with Python frameworks, RESTful services, and database operations. I am committed to continuously improving my skills and building reliable features by solving problems with clean, structured code.

EXPERIENCE

Python Engineering Expert, 03/2025 - 05/2025

AfterQuery - New Delhi, India

- Trained AI models to improve coding capabilities.
- Dockerized patch files to enhance deployment efficiency by 50%.
- Implemented bug fixes, increasing software reliability by 30%.
- Conducted code reviews to ensure compliance with coding standards.

Python Developer, Intern, 07/2023 - 08/2023

UniConverge Technologies - New Delhi, India

- Developed user-friendly applications utilizing Tkinter for effective GUI development.
- Designed and implemented RESTful APIs, ensuring robust backend functionality.
- Conducted thorough API testing with Postman to verify performance and reliability.
- Optimized database queries through SQLAlchemy ORM for enhanced efficiency.
- Employed Pandas library for data analysis, manipulation, and visualization.

Software Trainee, Intern, 06/2022 - 07/2022

InternshipStudio - New Delhi, India

- Created a room allotment and booking system, leveraging advanced DSA concepts in C++.
- Enhanced accessibility by implementing a user-friendly CLI version.
- Tailored room spaces to meet user needs, boosting booking efficiency.
- Reduced time and resource consumption through process optimization.

PROJECTS

- **Blog Post Website ([Link](#))**: Developed a full-stack blog platform using Flask (Python) with secure user authentication via decorators and wrappers, implemented complete backend logic, and a responsive frontend.
- **NoteKeeper ([Link](#))**: Full-stack note management application built with FastAPI and MongoDB. Implemented CRUD operations, regex-based search filtering, Jinja2 templating, and importance tagging for notes. Developed RESTful API endpoints with form validation and PyMongo database operations.
- **AI-Based Weather Monitoring System**: Flask REST API for real-time weather monitoring serving IoT devices and mobile applications. Implemented sensor data ingestion, machine learning-based predictive alerts, device authentication, historical data retrieval, and relay control. Utilized PostgreSQL database with automated threshold-based alerting system.

SKILLS

- Programming languages (Java, Python, JavaScript)
- Frontend Development: React.js, HTML, CSS, JavaScript
- Backend Development: Express.js, Flask, Django, FastAPI
- Database management: PostgreSQL, MongoDB, MySQL, SQLite
- Libraries & Tools: Pandas, SQLAlchemy, Tkinter, Postman
- Tools & Technologies: Git, AWS, Redis, Celery
- Other Skills: RESTful APIs, Data Structures & Algorithms (DSA).

EDUCATION

B.Tech : Electronics & Communication Engineering, 06/2025

Delhi Skill & Entrepreneurship University- New Delhi

- Programming Coursework: Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Networking
- EE Coursework: Digital Signal Processing, IoT, Embedded Systems, Computer Architecture, VLSI Design, Logic Design
- GPA: CGPA - 7.8/10

CERTIFICATIONS

- Web development, Acmegrade
- 100 Days of Code: Python Pro Bootcamp, Udemy, Dr. Angela Yu
- Introduction to Programming Using HTML and CSS, Udemy
- Java Masterclass 2025, Udemy, Tim Buchalka
- Data Structures & Algorithms, Udemy, Andrei Neagoie
- Grade 2 drums, Trinity College London, 02/29/20

ACTIVITIES AND HONORS

- Inter-University Sports Chess Tournament (2021-2022) : Third Position