Richard Samuel

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SUMMARY

Recent B.Tech (ECE) graduate (2025) with 2+ years of backend development experience, specializing in RESTful API design, scalable systems, and full-stack applications. Proficient in Python, Flask/Django, FastAPI, MERN stack, and PostgreSQL, with skills in AI model training and database optimization. Demonstrates independence, measurable improvements, and quick learning of new technologies. Eager to work as a Software Development Engineer.

EXPERIENCE

Software Engineer, 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** 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
- **Quiz website**: built a dynamic quiz application using Flask and SQLite as part of an academic project, integrated RESTful API from TriviaDB, and validated endpoints using Postman for robust backend testing
- **E-commerce website**: created a fully functional e-commerce website using HTML, CSS, and JavaScript for the frontend, and PHP with MySQL for the backend, supporting product listings, cart, and user flow CRUD operations
- **Predicting student academic success using machine learning:** conducted a research project predicting academic performance using random forest, naive Bayes, and K algorithms on a dataset of 215 students with 15 attributes. Random forest achieved 0.891 precision and 0.921 recall, emphasized early identification of at-risk students for targeted interventions, and highlighted the importance of skills, adaptability, and resilience in job placement success

SKILLS

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