Richard Samuel

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SUMMARY

Motivated student with a solid educational foundation ready to contribute in a professional environment. Strong technical skills in various software applications and adept at managing complex tasks. Adept at working effectively, unsupervised, and quickly mastering new skills.

EXPERIENCE

Software Engineer, 03/2025 - 05/2025

AfterQuery - New Delhi, India

- Trained AI models to enhance coding capabilities.
- Dockerized patch files, increasing deployment efficiency.
- Implemented bug fixes, boosting software reliability.
- Conducted code reviews to ensure adherence to 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

Internship Studio - 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.

SOFTWARE 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**, I 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)
- Version control (Git)
- Web development (HTML, CSS)
- Python frameworks (Flask, Django, FastAPI)
- Database management (PostgreSQL, MongoDB)
- Data structures and algorithms
- Cloud services (AWS, Redis, Docker)

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