

Harjas Partap Singh Romana

Faridkot, Punjab 151203 • harjasr42@gmail.com • + 91 7087760769

PROFESSIONAL SUMMARY

Innovative and results-driven Computer Science engineer specializing in software development, and scalable cloud architectures (AWS). Demonstrated expertise in building robust, high-performance applications using modern tech stacks and best practices. Eager to contribute as a Software Development Engineer by leveraging strong foundations in Data Structures & Algorithms, Object-Oriented Programming (OOP), and Agile methodologies.

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript/TypeScript, SQL

Web Technologies: HTML, CSS, React.js, Node.js, RESTful APIs, Flask

Cloud/DevOps: AWS (EC2, S3, Lambda, RDS, API, Route 53, EMR), Docker, Kubernetes, CI/CD

Databases: MySQL, MongoDB, Firebase

AI/ML: Scikit-Learn, Deep Learning, NLP, Anomaly Detection

Core CS: Data Structures & Algorithms, OOP, System Design, SDLC, Agile/Scrum

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY

Bachelor in Technology Computer Science (Specialization in Cloud Computing & Automation)

CGPA: 8.65

Relevant Coursework: Data Structures, Algorithm Design, Database Management Systems, Cloud Architecture

Bhopal, Madhya Pradesh

September 2022 - Present

WORK EXPERIENCE

QUANTAI

Data Scientist Intern

Auckland, New Zealand

May 2025 - Present

- Designed and implemented AI-powered voice agents and agentic AI systems, leveraging NLP and Deep Learning for **natural and context-aware interactions**.
- Reduced system latency by **80%** through parallel processing and optimized compute resource allocation.
- Lead the development and deployment of company's website integrating **secure pipelining**, CI/CD, domain management.
- Collaborated with cross-functional teams to design **scalable software architectures** for AI Models and cloud-based apps.
- Implemented RESTful APIs, version control (Git/Github) and followed Agile methodologies throughout **SDLC**.

PROJECTS

E-Commerce Platform (React.js, AWS, MySQL, RESTful APIs)

- Engineered a scalable, full-stack e-commerce solution with secure user authentication, product catalog, and real-time order management, capable of handling **100K** + users.
- Implemented RESTful APIs and integrated backend with AWS EC2 and RDS, achieving a **70%** reduction in downtime via auto-scaling and load balancing.
- Optimized database queries and caching, improving transaction processing speed by **35%**.

Movie Recommendation Engine (Python, Scikit-Learn, Flask, SQL)

- Built a collaborative filtering-based recommendation engine achieving **85%** prediction accuracy.
- Tuned algorithms for **sub-500ms** response times, supporting real-time personalized recommendations for users.

ACHIEVEMENTS

- HackerRank:** 5-Star Java | **LeetCode:** 100+ solutions (*focus: time/space complexity*).
- Finalist, Industry Conclave:** Presented research on system failure analysis of Windows 10.

LEADERSHIP

President, Stats-O-Locked Club: Organized statistics workshops, fostering analytical thinking.

Development Lead, CloudZone Club: Oversaw all technical operations and led website development for the club using React.js.

CERTIFICATION

IBM DevOps (IBM) | IBM Cyber Security (IBM) | Java Programming (Udemy)