Rahul Shrestha

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Profile

Computer Science undergraduate specialising in Artificial Intelligence with a strong interest in technology engineering, backend development, and data-driven systems. Experienced in building Java applications, database-backed web systems, and analytical Python projects through academic and independent work. Seeking a 12-month industrial placement to apply engineering fundamentals, develop large-scale systems skills, and contribute to secure, reliable technology solutions.

Education

University of Huddersfield, Huddersfield, UK
BSc Computer Science with Artificial Intelligence   *Expected Graduation: 2028*

- Programming fundamentals using **Java** and **Python**

- Database systems and web development (SQL, relational databases)

- Data structures and algorithms

- Software Development Life Cycle (SDLC)

- Computer networks and systems

- Artificial intelligence fundamentals

  Herald International College, Kathmandu, Nepal
Higher Secondary Education (NEB – Science)   *Completed: 2024*
  Equivalent to UK A-Levels in Science.

Technical Skills

- **Programming Languages:** Java, Python, PHP, SQL, JavaScript

- **Web & Backend:** HTML5, CSS3, backend development, CRUD operations, authentication

- **Databases:** MySQL / MariaDB, relational schema design, SQL joins and aggregation

- **Tools & Platforms:** Git, GitHub, Linux (Ubuntu), VS Code, XAMPP, phpMyAdmin

- **Core Concepts:** Object-oriented programming, debugging, documentation, problem solving

Relevant Projects

Database-Driven Web Application (PHP & MySQL)

- Designed a relational database schema to manage structured records securely
- Implemented backend functionality including authentication and full CRUD operations
- Developed SQL queries involving joins and aggregation for reporting and data retrieval

Lost & Found Tracking System (Java)

- Built a console-based Java application using object-oriented design principles
- Implemented role-based logic, input validation, and structured program flow
- Focused on maintainable code, clarity, and logical problem decomposition

Stock Price Prediction Project (Python)

- Analysed historical stock market data using regression techniques
- Implemented Linear Regression and Random Forest models
- Evaluated model performance using MAE, RMSE, and R^2

Certifications & Achievements

- Networking Fundamentals – Credly Verified Digital Badge
- Django Framework Certificate – backend development fundamentals
- Top 10 Academic Performance – International Year One (2025), University of Huddersfield
- Web Development Workshop (7 Days) – HTML, CSS, JavaScript fundamentals

Experience

Part-Time Employment (Support / Agency Roles)   *UK*

- Balanced part-time employment alongside full-time university studies
- Demonstrated reliability, time management, and adaptability in fast-paced environments
- Developed professional communication and teamwork skills

Additional Information

Eligible for a 12-month industrial placement in the UK. Strong interest in enterprise-scale systems, secure software development, and continuous learning. Full portfolio, code repositories, and academic work available online.