Ahmed Ikram | Computer Science Student | Full Stack & Data

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PROFILE

3rd-year Computer Science student (Data Science & AI) at the University of Dundee, seeking a software engineering or technology placement. I've built projects across backend development (Python/Flask, C++), mobile (React Native), and data science (ML pipelines, Power BI dashboards), and have deployed cloud infrastructure on AWS. I pick up new technologies quickly and am comfortable in codebases I haven't seen before.

EDUCATION

High School of Dundee   *Aug 2018 - June 2023*

- National 5 Computer Science, Maths, English, Economics and Physics (All A)
- Higher Computer Science, Maths and English (All A)
- Higher Chemistry (B) and Higher Physics (C)
- Advanced Higher Computer Science (C)

University of Dundee - *BSc (Hons) Computer Science (Data Science and AI)*   *Sep 2023 - Present*

- Most relevant modules:
  - Introduction to Data Structures and Algorithms (Java)
  - Multi-Paradigm Programming (C/C++)
  - Data Engineering (Apache Airflow, Python, Power BI)
  - Artificial Intelligence & Machine Learning (Python)
  - Mobile Application Development (React Native)
  - Database Systems (SQL)
- Expected Graduation: June 2028

PROJECTS

StockLens Mobile App | React Native Expo, TypeScript, Firebase

- Built a full-stack mobile app from scratch: Firebase auth, real-time data sync, and an OCR receipt scanning pipeline.
- Structured the project across a TypeScript codebase with clear separation between data, logic, and UI layers.

AI Movie Recommendation System | Python, Scikit-learn, Flask

- Built a hybrid recommendation engine (collaborative filtering + content-based) and deployed it as a Flask web app.
- Achieved ~0.75 Hit Rate and ~0.22 Precision@10; surfaced results through an interactive frontend with charts.

Haggis Data Mining Project | Python, Scikit-learn, XGBoost, Jupyter Notebook

- Ran a complete ML pipeline from EDA to model evaluation, achieving ~90% classification accuracy with XGBoost.
- Translated statistical findings into plain business recommendations supported by F1-scores and cross-validation.

Rental Car Management System | C++

- Designed a modular OOP system with polymorphism, templates, and smart pointers for memory-safe vehicle hierarchy management.
- Built a fuzzy search engine using Levenshtein distance integrated with a custom file persistence layer.

Supermarket Sales Case Study Dashboard | Excel

- Turned 51,000 raw sales records into an interactive KPI dashboard revealing profit-damaging discount strategies in Furniture.

TECHNICAL SKILLS

Languages	Python, Java, C++, C, JavaScript, TypeScript, SQL, Bash
Backend / APIs	Flask, REST APIs, PostgreSQL, MySQL, MongoDB
Data / ML	Pandas, NumPy, Scikit-learn, PyTorch, Power BI, Jupyter, Apache Airflow
Cloud & DevOps	AWS (EC2, S3, RDS, SageMaker, IAM), Azure, Docker, Kubernetes, CI/CD, Linux (Ubuntu), Git
Web / Mobile	React Native Expo, HTML, CSS, Tailwind CSS, Bootstrap CSS, Firebase

CERTIFICATES

AWS Academy Graduate - Machine Learning
Feb 2025
- Applied ML fundamentals with Amazon SageMaker.
- Delivered projects in data preprocessing, model training, and evaluation.
- Implemented ML models in real-world, cloud-hosted scenarios.

AWS Academy Graduate - Cloud Foundations
Mar 2024
- Hands-on experience with EC2, S3, RDS, IAM and Elastic Beanstalk.
- Gained knowledge in cloud infrastructure, cloud security, cost optimisation, and best practices.

Foundations of Azure AI
Oct 2024
- Computer Vision, NLP, Cognitive Services, AI Ethics

EXPERIENCE

Beauly Mini Market, Dundee, Scotland
Retail Assistant   *September 2023 - Present*
- Diagnosed and resolved till and stock system failures under time pressure using structured troubleshooting.
- Coordinated inventory and delivery logistics with colleagues, maintaining clear communication across handoffs.
- Handled customer queries and complaints, practising clear and calm communication under pressure.

Zulus Peri Peri Grill, Dundee, Scotland
Front of House Worker   *June 2021 - September 2023*
- Trained 5 new staff members; structured onboarding documentation which significantly cut training time.
- Balanced multiple high-pressure tasks simultaneously, strengthening prioritisation and problem-solving skills.

TRANSFERRABLE SKILLS

Adaptability & Fast Learning
Picked up React Native, Flask, and Apache Airflow independently across different projects.

Problem Decomposition
Break complex technical challenges into manageable tasks with clear acceptance criteria.

Teamwork & Collaboration
Contributed to team projects and trained colleagues; comfortable in cross-functional settings.

Initiative & Self-Motivation
Built multiple personal projects outside coursework, including AWS and Azure certifications.

Technical Communication
Present technical work clearly to both technical peers and non-technical stakeholders.

Attention to Detail
Thorough about testing, validation, and accuracy - in code, data, and documentation.

Time Management
Balanced university deadlines, part-time work, and independent projects simultaneously.

Growth Mindset
Actively seek feedback, reflect on mistakes, and apply lessons to future work.