Ahmed Ikram | Computer Science Student | Aspiring Developer

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Professional Profile

Computer Science student looking for a 12-month industrial placement where I can apply and grow my skills across software engineering, data, and/or analytics. I have hands-on experience building full-stack applications, backend systems, and data-driven projects using Python, Java, C/C++, React, SQL, and AWS. I enjoy turning ideas and datasets into working systems, I'm comfortable learning quickly in large real-world codebases.

Education

High School of Dundee *Aug 2018 – June 2023*

- Achieved A in National 5 Computing Science, Maths, English, Economics and Physics.
- Achieved A in Higher Computing Science, Maths and English.

University of Dundee

BSc (Hons) Computer Science (Data Science and AI) *Sep 2023 – Present*

- Most relevant modules:
    - Data Structures & Algorithms (Java)
    - Multi-Paradigm Programming (C/C++)
    - Data Visualisation and Analytics
    - Data Engineering
    - Artificial Intelligence & Machine Learning
- **Expected Graduation**: June 2028

Projects

Latest Projects:

Haggis Data Mining Project | Python, Jupyter Notebook

- Conducted end-to-end analysis on a multivariate dataset (344 records), classifying three species.
- Implemented K-Means, Decision Trees, KNN, and Logistic Regression models.
- Improved results through feature engineering and hyperparameter tuning, validating performance with F1-score and confusion matrices.

StockLens Mobile App | React Native, Flask, Python

- Designed and implemented a full-stack mobile application that converts user spending data into personalised financial insights.
- Built a Flask REST API to process OCR-based receipt input, handle user data, and generate analytics.
- Demonstrated end-to-end system design, API integration, and state management in a production-style mobile app.

Supermarket Sales Dashboard | Excel

- Transformed a large retail dataset into an interactive dashboard tracking profit margin, regional sales, and category performance.
- Used pivot tables and slicers to surface trends and identify loss-making areas.

AI Movie Recommendation System | Python, Flask, JavaScript

- Developed collaborative, content-based, and hybrid recommendation models using the MovieLens dataset (100k+ ratings).
- Delivered a Flask web application providing real-time, personalised recommendations.
- Evaluated models using Precision@10 (~0.22) and Hit Rate (~0.75), applying data-driven performance analysis.

Rental Car Management System | C++

- Built a modular, object-oriented system supporting polymorphic vehicle types, discounts, late-fee handling, and file persistence.
- Applied defensive programming and scalable design principles similar to real-world backend systems.

Technical Skills

Category	Technologies
Programming Languages	Python, Java, C, C++, JavaScript, TypeScript, Bash
Web & Mobile Development	React, React Native, Flask, HTML, CSS, Tailwind CSS, Bootstrap
Databases & APIs	MySQL, PostgreSQL, MongoDB, REST APIs, SQL
Data Science & Machine Learning	Pandas, NumPy, scikit-learn, PyTorch, Matplotlib, Jupyter Notebook
Cloud & DevOps	AWS (EC2, S3, Lambda, SageMaker), Docker, Git, GitHub, CI/CD
Testing & Development Tools	pytest, JUnit, Postman, VS Code
Operating Systems	Linux (Ubuntu), macOS, Windows
Methodologies & Core CS	Agile, Data Structures & Algorithms, OOP, Multithreading, File I/O

Work Experience

Zulus Peri Peri Grill Dundee

Front of House Worker   *June 2021 – September 2023*

- Managed orders and workflows, developing systems thinking and process optimisation.
- Trained 5+ new staff, building team leadership and knowledge transfer skills relevant to tech teams.
- Balanced multiple high-pressure tasks, strengthening problem-solving, prioritisation, and communication.

Tech Relevance: Built strong foundations in process optimisation, teamwork, and knowledge transfer—directly transferable to managing cloud and AI projects.

Beauly Mini Market

Retail Assistant   *September 2023 – Now*

- Resolved till and stock issues, applying logical troubleshooting similar to debugging.
- Streamlined inventory and deliveries through team collaboration, reinforcing project execution skills.
- Communicated effectively with diverse customers, mirroring requirement gathering and solution explanation in tech contexts.

Tech Relevance: Gained experience in troubleshooting, requirement gathering, and clear communication, aligning with problem-solving in technical environments.

Certifications

AWS Academy Graduate - AWS Academy Cloud Foundations   *Mar 2024*

- Hands-on experience with EC2, S3, RDS, IAM, Elastic Beanstalk.
- Deployed scalable, secure cloud infrastructure with auto-scaling and load balancing.
- Built knowledge in cloud security, cost optimisation, and best practices.

AWS Academy Graduate - AWS Academy 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.

Transferable Skills

- ✓ **Team Collaboration:** Work effectively in teams, sharing knowledge and supporting collective goals.

- ✓ **Strategic Planning:** Efficiently plan and execute projects with foresight.

- ✓ **Problem-Solving:** Turn inefficiencies into practical, actionable solutions.

- ✓ **Risk Assessment & Decision-Making:** Make informed decisions under uncertainty.

- ✓ **Analytical Thinking:** Solve complex problems with clear, logical solutions.

- ✓ **Attention to Detail:** Deliver precise, high-quality work consistently.

- ✓ **Technical Curiosity:** Explore new technologies to innovate and improve.

- ✓ **Adaptability**: Quickly adjust to new tools, challenges, and project requirement.