Ahmed Ikram | Computer Science Student | Aspiring Developer

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Professional Profile

Ambitious Computer Science student specialising in AI and Data Science at the University of Dundee. AWS Academy Graduate with a strong technical foundation in Python, Java, and C++, backed by hands-on experience building cloud-hosted ML models and React Native mobile applications. Seeking a challenging industry placement to utilise my skills in software engineering and/or data analytics within a professional development environment.

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*
- Focus on AI, Data Engineering and Analytics through specialised modules:
  - ***Introduction to Artificial Intelligence & Machine Learning*** - Fundamentals of AI/ML, problem solving with models, evaluation.
  - ***Data Engineering*** - Data warehouses, cloud services, continuous deployment, and handling large datasets.
  - **Data Structures & Algorithms** - Algorithm design and implementation in Java, covering recursion, multithreading, and structures like binary trees and stacks.
  - **Multi-Paradigm Programming** - Procedural and object-oriented development in C/C++, focusing on manual memory management, pointers, and complex data structures.
- **Expected Graduation**: June 2028

Projects

StockLens Mobile App | React Native, Python, Flask
- A React Native mobile application that gamifies saving by transforming spending data into personalised investment insights. Users can scan receipts (using image processing/OCR) or manually input totals.
- Showcased proficiency in mobile development, backend logic, and developing a compelling UX.

AI Movie Recommendation App | Python, Flask, HTML, JavaScript, CSS
- A full-stack recommendation system using collaborative, content-based, and hybrid ML models on the MovieLens dataset (100k+ ratings, 9.7k movies).
- Delivered a Flask web app with interactive AI generated recommendations, achieving Precision@10 ≈ 0.22 and Hit Rate ≈ 0.75.

Haggis Data Mining | Jupyter Notebook, Python
- An end-to-end machine learning pipeline for 344 multivariate records, successfully classifying 3 distinct species using 4 algorithms(K-Means, Decision Trees, KNN, Logistic Regression).
- Optimized model performance through Feature Engineering and Hyperparameter Tuning and validating results using F1-Score and Confusion Matrix analysis.

Supermarket Dataset Data Dashboard | Excel
- Synthesised a large-scale retail dataset into a dynamic executive dashboard, tracking 5+ critical KPIs (including Profit Margin and Regional Sales) to identify loss-making sectors.
- Engineered interactive elements using Pivot Tables and Slicers, reducing time-to-insight for upper management by visualising trends across multiple product categories and regions.

Rental Car Company | C++
- A modular rental management system with polymorphic vehicle types, loyalty/discount handling, late fees, fuzzy search, and file persistence.
- Showcased advanced OOP, scalable system design, and defensive programming practices.

Technical Skills

Category	Technologies
Programming	**Python**, **Java**, **C, C++, Shell Scripting** (Bash)
Cloud & DevOps	**AWS** (EC2, S3, Lambda), **Docker**, **Git, GitHub**, Familiar with **CI/CD** Pipeline
Data & ML	**SQL**, **Jupyter Notebook**, **Pandas**, **NumPy**, **Scikit-learn** , **PyTorch** and **Matplotlib**
Web & Mobile Dev	**HTML**, **CSS**, **JavaScript**, **React**, **Flask**, **Bootstrap**, **Tailwind CSS, React Native**, **TypeScript**
Tools & OS	**Linux**, **macOS**, **Windows**, **MS Word**, **MS Excel**, **Power BI**
Databases	**MongoDB**, **MySQL**, **SQL**, **NoSQL**

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.