

# Ahmed Ikram | Computer Science Student | Full Stack & Data

Dundee, Scotland | +44 7421 996048 | [ahmedikram30@gmail.com](mailto:ahmedikram30@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Online Portfolio](#)

## PROFILE

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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 (ETL pipelines, ML, 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, proven by my open-source contributions.

## EDUCATION

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### High School of Dundee

Aug 2017 - 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

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### StockLens Mobile App | React Native Expo, TypeScript, Firebase, Node.js

- 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.

### Web Log ETL Pipeline | Apache Airflow, Python, Power BI, PostgreSQL

- Designed and implemented an Apache Airflow DAG to extract raw web server logs, transform the data into a Star Schema, and load it into structured dimension tables.
- Built a Power BI dashboard surfacing traffic trends, geographic distribution, and page-level engagement metrics.

### 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

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

## CERTIFICATES

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### **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

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### **Beaully 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

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### **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.