

Ahmed Ikram | Computer Science Student | Aspiring Developer

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Professional Profile

Computer Science student at University of Dundee specialising in AI and Data Science. Well Skilled in Python, Java, and AWS, with projects spanning cloud-hosted ML models and scalable web applications. Eager to apply technical expertise and initiative in an Industry placement role, where deemed necessary.

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 Visualisation Analytics** – Extract insights from large datasets using statistical inference, data mining, and industry-standard visualisation tools.
- **Expected Graduation:** June 2028

Projects

StockLens | React Native, Python, Flask, APIs

- Engineered a React Native mobile application that gamifies saving by transforming spending data into personalized investment insights. Users can scan receipts (using image processing/OCR) or manually input totals.
- Demonstrated financial analysis by calculating the historical and projected value of that spending amount if invested in chosen stocks (e.g., S&P 500) over user-defined periods (X years ago or X years from now).
- Showcased proficiency in mobile development (React Native), backend logic, and developing a compelling user experience around personal finance.

AI Movie Recommendation App | Python, Flask, HTML, JavaScript, CSS

- Built 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 recommendations, achieving Precision@10 \approx 0.22 and Hit Rate \approx 0.75.

Rental Car Company | C++

- Engineered 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.

Scientific Calculator | HTML, CSS, JavaScript

- Developed a responsive multi-mode calculator with unit conversions, financial tools, tip calculator, and external API integration for currency rates.
- Implemented history tracking, dark/light themes, and mobile-first design.

Technical Skills

Category	Technologies
Programming	Python (6 years), Java (3+ years), C, C++ , Shell Scripting (Bash) (1+ year)
Cloud & DevOps	AWS (EC2, S3, Lambda), Docker (1+ year), Git , GitHub (5+ years), Familiar with CI/CD Pipeline
Data & ML	SQL (6+ years), Pandas , NumPy , Scikit-learn , PyTorch and Matplotlib (1+ year)
Web & Mobile Dev	HTML , CSS , JavaScript (6+ years), React , Flask , Bootstrap , Tailwind CSS (3+ years), React Native (1+ years)
Tools & OS	Linux, macOS, Windows, MS Word, MS Excel

Work Experience

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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.

Beaully 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

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| ✓ Team Collaboration: Work effectively in teams, sharing knowledge and supporting collective goals. | ✓ Analytical Thinking: Solve complex problems with clear, logical solutions. |
| ✓ Strategic Planning: Efficiently plan and execute projects with foresight. | ✓ Attention to Detail: Deliver precise, high-quality work consistently. |
| ✓ Problem-Solving: Turn inefficiencies into practical, actionable solutions. | ✓ Technical Curiosity: Explore new technologies to innovate and improve. |
| ✓ Risk Assessment & Decision-Making: Make informed decisions under uncertainty. | ✓ Adaptability: Quickly adjust to new tools, challenges, and project requirement. |