**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 ≈ 0.22 and Hit Rate ≈ 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**

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| --- | --- |
| 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**

**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. | * **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. |