**Ahmed Ikram**

**Computer Science Student**

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[Online Portfolio](https://ahmedikram05.github.io/Online-Portfolio): <https://ahmedikram05.github.io/Online-Portfolio>|<Github>: <https://github.com/ahmedikram05>

**Personal Statement**

Ambitious and detail-oriented Computer Science student at the University of Dundee with a passion for developing innovative software and immersive game experiences. With a strong foundation in software development, artificial intelligence, and database systems, I’ve honed my skills through projects ranging from interactive games using Pygame to collaborative applications built in Java. I thrive in dynamic, team-oriented environments and am eager to leverage my technical expertise and leadership skills to tackle real-world challenges.

**Education**

**BSc (Hons) Computer Science***University of Dundee, Scotland*

*2023 - Present*

* **Focus**: Software and Web Development, Artificial Intelligence, Algorithms
* **Key** **Modules**: Java Data Structures and Algorithms, Web Development, Database Systems and AI Machine Learning
* **Projects**:
  + **Java Messaging Application:** Contributed to designing and implementing a chat application featuring user profiles and search functionality using Java and efficient data structures.
  + **Unix Version Control System:** Collaborated on building a Unix-based version control system with shell scripting, streamlining version management processes.
* **Expected** **Graduation**: 2027

**High School of Dundee, Scotland***2018 - 2023*

* Achieved As in Higher Computing Science, Maths and English.
* **Advanced Higher Computing Science Assignment**: Developed a Python-based *Ping Pong* game using Pygame, refining problem-solving and coding abilities through real-time application development.

**Work Experience**

**Zulus Peri Peri Grill Dundee (Part-time)**

*June 2021 – September 2023*

* Managed front desk operations, order processing, and milkshake preparation in a high-paced environment.
* Trained over 5 new employees, ensuring consistent service quality and adherence to standards.
* Coordinated delivery logistics, showcasing strong leadership, multitasking, and communication skills.

**Projects**

**Java Messaging Application Group Project**

* Developed a chat application with user profiles, chat management, and search functionality.
* UtilizedJava and data structures (linked lists, arrays) for efficient performance.

**Process Scheduler Terminal App**

* Implemented a terminal-based CPU process scheduler with multiple algorithms.
* Strengthened Python skills in system-level programming and CLI development.

**Unix Version Control System Group Project**

* Built a version control system using Unix and shell scripting.
* Demonstrated expertise in Git, Bash scripting, and software lifecycle management.

**Online Portfolio**

* Created a personal portfolio using HTML, CSS, and JavaScript to better showcase my skills.
* Showcases projects and technical skills with a responsive, user-friendly design.

**Certifications**

**AWS Academy Graduate - AWS Academy Cloud Foundations**

*2023 - 2024*

* Hands-on experience with AWS services: EC2, S3, RDS, IAM, Elastic Beanstalk
* Deployed and managed scalable cloud infrastructure with auto-scaling and load balancing
* Gained knowledge in cloud security, cost optimization, and best practices

**AWS Academy Graduate - AWS Academy Machine Learning**

*Jan 2025*

* Learned machine learning fundamentals using AWS AI/ML tools (Amazon SageMaker)
* Hands-on experience with data preprocessing, model training, and evaluation
* Applied ML models to real-world scenarios in a cloud environment

**Foundations of Azure Artificial Intelligence**

Oct *2024*

* Explored Azure AI services: Computer Vision, NLP, and Cognitive Services
* Implemented AI models in cloud-based applications
* Understood AI ethics and responsible deployment

**Cloud Computing: Understanding Core Concepts**

*Oct 2024*

* Covered key concepts: virtualization, networking, security, and cloud models (IaaS, PaaS, SaaS)
* Compared major cloud providers and their service offerings
* Strengthened theoretical foundation for cloud-based implementations

**Technical Skills**

**Programming Languages:**

* Python (5+ years), Java (3+ years), C & C++ (1+ year)

**Web Development & Frameworks:**

* HTML, CSS, SQL, JavaScript (5+ years); Familiar with React, Flask, Tailwind, and Bootstrap

**Cloud & DevOps Tools:**

* AWS, Azure, Git & GitHub (5+ years); Familiar with CI/CD pipelines

**Operating Systems:**

* Windows, macOS, Linux

**Soft Skills**

* **Leadership:** Demonstrated by training new team members and coordinating group projects.
* **Problem Solving & Critical Thinking:** Proven through overcoming technical challenges in academic and project settings.
* **Effective Communication & Teamwork:** Collaborative approach in both academic projects and part-time roles.
* **Adaptability & Time Management:** Successfully balanced academic, work, and personal projects.