Ahmed Ikram
Computer Science Student

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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.
- Utilized Java 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.