

# Ahmed Ikram

## Computer Science Student

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### Personal Statement

I am a highly motivated Computer Science student at the University of Dundee, eager to apply my academic experience and technical skills in a professional software development environment. My expertise in programming languages such as Python, C, and Java is complemented by experience in version control systems and working with embedded platforms like Raspberry Pi. I am passionate about solving complex problems through innovative software solutions and thrive in collaborative, team-oriented environments. With a strong foundation in Agile development methodologies, I am keen to contribute to impactful projects and continue expanding my skills in the ever-evolving technology sector.

### Education

#### BSc (Hons) Computer Science

University of Dundee, Scotland

2023 - Present

- **Focus:** Software Development, Artificial Intelligence, Algorithms
- **Key Modules:** Software Engineering, Data Structures and Algorithms, Web Development, and Database Systems
- **Relevant Projects:** Developed a *Snakes and Ladders* game in Java and a *Version Control System* using Unix, showcasing my ability to work across software platforms.
- **Expected Graduation:** 2027

#### High School of Dundee, Scotland

2018 - 2023

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

### Experience

#### Version Control System (Academic Team Project)

- **Description:** Created a version control system using Unix, enabling streamlined code management for team-based development.
- **Skills Gained:** Proficient in Unix commands, scripting, Git, and version control, and developed a deep understanding of the software development lifecycle.

#### Messaging Application (Academic Team Project)

- **Description:** Collaborated with a team to design and implement a Java-based messaging application, which included features such as user profiles, chat management, contact organization, and a search function for chats. Applied key data structures like linked lists and arrays for efficient data handling and retrieval, and ensured the app functioned smoothly with multiple data queries.
- **Skills Gained:** Strengthened Java programming, data structure design (e.g., linked lists, arrays), and teamwork within an Agile development framework.

#### Ping Pong Game (Academic Project)

- **Description:** Built a Python-based *Ping Pong* game using the Pygame module, focusing on real-time input handling and event-driven programming.
- **Skills Gained:** Strengthened my Python coding abilities, logical thinking, and real-time application development.

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## Technical and Transferable Skills

- **Programming Languages:** Python, C, C++, Java
- **Web Development:** HTML, CSS, SQL
- **Embedded Systems:** Experience with microcontrollers, including Raspberry Pi
- **Version Control & CI/CD:** Proficient in Git, GitHub, familiar with CI/CD pipelines
- **Operating Systems:** Windows, Linux, MacOS

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## Core Skills

- **Problem-Solving:** Demonstrated across academic projects where solutions were developed under tight deadlines.
- **Agile Development:** Experience working within Agile methodologies, using sprints and daily stand-ups for project management.
- **Team Collaboration:** Strong ability to work as part of a team, as demonstrated in multiple academic group projects.
- **Attention to Detail:** Maintained high coding standards, ensuring functionality and user-friendliness across multiple projects.
- **Communication** Strong verbal and written communication skills, essential for coordinating team efforts and project work

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## Certifications

### AWS Certified Cloud Practitioner

- Gained hands-on experience with AWS services, including auto-scaling, S3, and RDS, while developing a scalable web application using AWS Elastic Beanstalk.
- Enhanced understanding of cloud computing concepts and best practices, fostering a collaborative learning environment.
- 2023 – 2024

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## Additional Skills & Attributes

- Strong problem-solving abilities developed through various academic projects, including those involving real-time application development and coding under tight deadlines.
- Proven ability to collaborate effectively in Agile environments and meet key project milestones.
- A proactive, independent learner with a strong desire to explore new technologies and contribute to innovative solutions.

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## Interests

- Artificial Intelligence and its applications in software development
- Cloud Computing and scalable web applications
- Data Analysis and Machine Learning
- Exploring innovative technologies and contributing to tech-driven solutions