

# Mahlako Mogoane

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**Computer Science student** with a strong foundation in software development, problem-solving, and algorithm design. Highly motivated, detail-oriented, and committed to continuous learning and professional growth.

## Experience

MARCH 2025 – PRESENT

**VR Developer | UJ APB Library | Johannesburg, Gauteng**

1. Designed and developed immersive VR experiences using Unity and C#
2. Implemented interactive mechanics and optimized performance for VR applications
3. Worked with VR headsets such as Oculus and Meta Quests 2 and 3, utilizing XR frameworks
4. Integrated 3D assets, animations, and physics-based interactions into VR environments
5. Collaborated on academic and personal projects to refine VR development skills
6. Continuously learning and experimenting with new VR technologies and best practices

FEBRUARY 2025 – MARCH 2025

**Marking Assistant | Academy of Computer Science and Software Engineering | Johannesburg, Gauteng**

Assisted students by marking their weekly practicals and providing feedback on their C++ practicals.

AUGUST 2024 – NOVEMBER 2024

**Web Developer | Women Paying It Forward SA | Johannesburg, Gauteng**

- Designed and developed a responsive and user-friendly website using HTML, CSS, JavaScript, and Bootstrap
- Collaborated with stakeholders to gather requirements and ensure the website met the organization's needs
- Optimized website performance, accessibility, and SEO to enhance user experience and visibility
- Maintained and updated website content, ensuring consistency and accuracy
- Provided technical support and training to staff for managing and updating the website

## Skills

HTML 5 • CSS 3 • Java • ASP.NET C# • SQL • Python • Bootstrap 5 • GitHub • MSSQL • Unity

## Education

FEBRUARY 2022 - PRESENT

**Bachelor of Science in Computer Science and Informatics | University of Johannesburg | Johannesburg, Gauteng**

Relevant Coursework:

- Networking in Java

- Web Development and e-commerce in ASP.NET
- ITIL Framework

## Certifications

- Introduction to CyberSecurity – Cisco Network
- Foundational C# with Microsoft (2025)
- Programming and GRIT Bootcamp (2024)
- Financial Literacy – Be Money Wise (2023)
- Artificial Intelligence in the 4IR (2022)

## Professional Memberships

**Student Member**, IITPSA (*March 2025 – Present*)

**Student Member**, UJ Developer Society (*April 2025 – Present*)

## Projects

### Screen Recorder (February 2025)

- Developed a program to record the screen and save the output as an .avi file
- Used PyAutoGUI for screen capture automation and OpenCV (cv2) for video processing
- Gained hands-on experience with video encoding and real-time screen recording techniques
- Enhanced understanding of Python libraries for multimedia applications

### Screen Mirror Program (December 2024)

- Developed a program to mirror the screen of a connected device via USB
- Gained hands-on experience with Android Debug Bridge (ADB) for device communication
- Utilized Python and scrcpy to implement efficient screen mirroring functionality
- Improved understanding of Android development tools and debugging techniques

