

SHILUVELO MAKHUBELE

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Pretoria, South Africa, 0028

SOFTWARE ENGINEER

I am a passionate and driven computer science graduate currently doing my honours degree specializing in software engineering, Computer security, and digital forensics. With hands on experience in both full-stack development and cybersecurity, I have developed a strong foundation in cloud computing, forensic readiness in IoT, and secure software design. My expertise extends to modern technologies such as React, cloud-based security, and digital forensic tools, which I apply to innovative solutions that prioritize security and user experience. I have a keen interest in developing secure, efficient, and visually appealing applications, whether through my ongoing digital forensic prototype for Apple's HomeKit ecosystem or my entrepreneurial venture building an e commerce website. My goal is to contribute to impactful projects that align with my technical background and problem-solving capabilities.

EDUCATION

BscHons in Computer Science

Majors: Software Engineering, Computer Security, Digital Forensics and Image processing, Software Education
University of Pretoria-2024

Bsc Computer Science

Majors: Listed in academic record
University of Pretoria-2023

PROFESSIONAL EXPERIENCE AND PROJECTS

NVS System Update

Jan 2024 - Mar 2024

Full stack Developer

- With a group 4 including a senior developer we Updated the NVS system, a provider of pre-employment and background screening solutions.
- Skills: Worked with React, .NET, and DevOps pipelines.

Enaex

Nov 2023 - Feb 2024

Graduate Trainee

- Participated as part of a bursary program to gain industry experience
- Skills:
 - Adaptability: Quickly learned processes and adjusted to new environments
 - Time Management: Prioritized tasks efficiently to meet deadlines
 - Communication, and teamwork

PROJECTS

Honours Research Project

Feb 2024 - Oct 2024

Computer Science Honours Research

- focuses on digital forensic readiness for Internet of Things (IoT) devices, specifically examining Apple's HomeKit ecosystem. This study develops techniques for gathering, securing, and analyzing digital evidence from IoT devices, with an emphasis on pre-incident collection using the prototype tool "SecureCollect" which I developed.
- Skills: React & Node.js, MongoDB, Python, Wireshark, Flask, API development

COS720 Project

Feb 2024 - Jul 2024

Computer Security Honours Project

- I Built a cloud-based application with security features that showcased my understanding of cloud-security principles, I used AWS's EC2 instance as my cloud environment.
- Skills: AWS EC2, React, Node.js, DynamoDB, Logging, Monitoring, SSL/TLS setup AWS inspector, Encryption and hashing.

Capstone Project

Jan 2023 - Oct 2023

Final year project

- We Built an Event Organizer app for a client(EPI-USE) a part of our final year computer science project.
- Skills : Full-stack development using Angular, Nodejs ,Git/Github, MongoDB, AWS RESTful API creation ,JWT, MongoDB data modelling ,Event scheduling and user management ,Unit and integration testing.
- Application of the Software Development Lifecycle and Agile software development methodology

KEY COMPETENCIES

Programming Languages:

- Java
- C++
- Python
- Javascript
- SQL

Frameworks:

- Angular/Ionic
- React js
- Springboot

Other tools and skills:

- Agile Methodologies
- Algorithms and data structures
- NodeJS
- Database Management
- Apis
- Aws ec2
- Ci/cd pipelines
- Git/Github
- Unit ,Integration and end-to-end testing
- Design patterns

Soft Skills:

- Teamwork
- Problem Solving
- Critical Thinking
- Dependable
- Time management
- Adaptability
- Ability to work under pressure

LANGUAGES

- English- Proficient
- Xitsonga- Native