

# Vhulenda Mashamba

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🌐 [github.com/SMOKE484](https://github.com/SMOKE484)

## Education

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### Bsc Computer Science and Information systems

2022 – Present

*University of Witwatersrand, Johannesburg*

- I've Developed proficiency in programming languages such as Javascript, Java, Python, c# and C++, enabling the design and implementation of robust software applications.
- Gained a solid understanding of algorithms and data structures to optimise code efficiency and performance in software solutions.
- Acquired knowledge in software engineering principles, including agile methodologies, version control, and software lifecycle management.
- Studied database management systems to design, implement, and query relational and non-relational databases effectively.
- Implemented web development skills using HTML, CSS, JavaScript, and frameworks to build responsive and user-friendly interfaces.

## Technical Skills

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### PROGRAMMING LANGUAGES

- Javascript
- java
- Python
- C#
- C++
- HTML/CSS

### FRAMEWORKS

- React.js
- Node.js

### DATABASE MANAGEMENT

- SQL
- MongoDB
- Firebase

### DevOps & Practices

- Git/GitHub
- CI/CD
- Agile/Scrum
- Test-Driven Development (Jest)

### UX/UI

Figma

## Projects

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### Freelancer Management Platform | Web App [🔗](#)

03/2025 – 06/2025

<https://nice-dune-05fc61f10.6.azurestaticapps.net>

A vanilla JavaScript web application with Firebase backend designed to streamline freelancer-client collaborations. The platform enables secure job postings, contract management and milestone tracking, solving key pain points in the gig economy.

**Tech Stack:** Vanilla JavaScript, Firebase (Auth, Firestore, Cloud Functions), HTML/CSS

**Methodologies:** Agile (Sprint Planning), TDD (Manual Testing), Client-Side MVC Architecture

## Amacusi Farming Web System

05/2025 – Present

<https://amacusi-farming-web-system.github.io/Amacusi-Farming/>

Developed Amacusi Farming Admin Dashboard, a web-based management system for an agricultural e-commerce platform. Key features include product CRUD operations with image handling, order management with status tracking and filters, customer insights, and comprehensive reporting on sales, payments, and product performance. Implemented secure authentication, responsive UI, and export functionalities for PDF reports, enhancing operational efficiency for farm administrators.

**Tech Stack:** Vanilla JavaScript, Firebase (Auth, Firestore, Cloud Functions, Storage), HTML/CSS and Chart.js

**Methodologies:** Agile (Sprint Planning), TDD (Manual Testing), Client-Side MVC Architecture

### Business Websites | Static websites

I've designed and delivered static websites for multiple small businesses. Using core technologies like HTML5, CSS3, and JavaScript, I've built mobile-responsive, SEO-optimized sites that helped clients establish their online presence and attract new customers.

## Relevant modules

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- Data Structures and Algorithms
- Software Design
- Operating Systems and System Programming
- Advanced Analysis of Algorithms
- Database Fundamentals
- Computer Networks

## Soft Skills

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- Client Communication
- Problem-Solving & Adaptability
- Time Management & Organization
- Continuous Learner
- Team Collaboration