






Gideon Vermeulen

Software Developer & AI Enthusiast

 gideonnicovermeulen@gmail.com  +27 63 563 2963  github.com/GideonVermeulen

 Stellenbosch, South Africa



Profile

Third-year Bachelor of Computing student passionate about robotics, web development, and machine learning. Aiming to solve real-world problems using IT solutions. Experienced in building both frontend and backend components of applications, especially in educational and research-focused settings.

Quick to learn, collaborative, and eager to solve new problems through code. Seeking internship opportunities to gain real-world experience and contribute to software development projects.

Education

Belgium Campus iTversity — Stellenbosch Campus

2023 - Present

Bachelor of Computing (BComp) — 3rd Year

Areas of focus: Software Engineering, AI, Web Development

Selected to participate in UCLL International Project focusing on combating water hyacinth through innovative IT solutions.

Paul Roos Gimnasium

Matriculated 2022

National Senior Certificate

Technical Skills

Languages

JavaScript TypeScript C# Java Python SQL
HTML/CSS C++ (Arduino)

Frameworks & Libraries

Node.js Express.js Flask .NET scikit-learn
TensorFlow YOLO

Databases

SQL Server SQLite MongoDB PostgreSQL Redis

Tools & Platforms

Git & GitHub Postman RESTful APIs Docker
Arduino

Projects

Self-Watering Smart Plant Pot

Arduino IoT Embedded Systems

Monitors soil moisture, humidity, and temperature to trigger watering automatically. Uses Arduino hardware with custom control logic.

ULP95 Fuel Price Prediction

Python scikit-learn Flask Public API

Predicts fuel prices in the South African coastal region using machine learning. Integrates web scraping and API input to automate predictions.

Water Hyacinth Detection

YOLOv8 Python Arduino IoT

YOLOv8-based object detection model to identify water hyacinth. Created Arduino-powered demo as part of international project.

Student Grade Prediction

Python scikit-learn Flask ANN

ANN powered student grade classifier built in Python with scikit-learn, deployed via Flask on Render.