



# Gideon Vermeulen



## Software Developer & AI Enthusiast

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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.

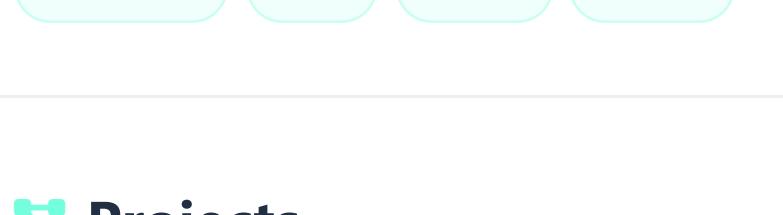
#### Paul Roos Gimnasium

Matriculated 2022

#### National Senior Certificate

## </> Technical Skills

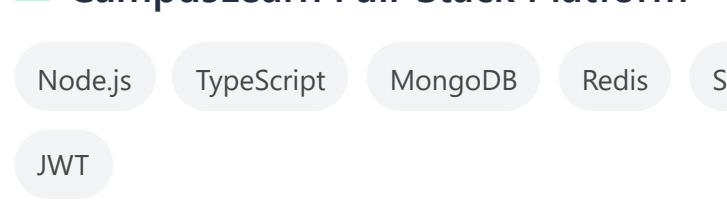
### Languages



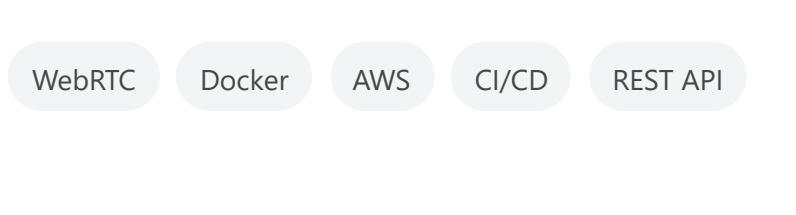
### Frameworks & Libraries



### Databases

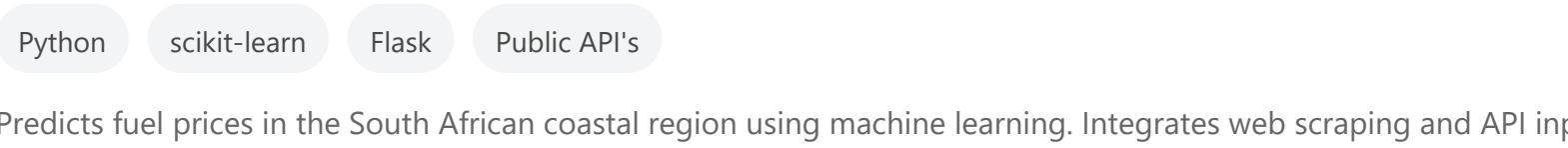


### Tools & Platforms



## Projects

### CampusLearn Full-Stack Platform



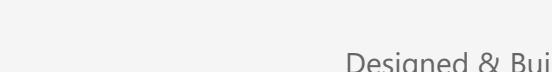
A comprehensive educational platform connecting students and tutors, featuring a performance-oriented backend. The system includes real-time chat, a forum with live voting, video calling via WebRTC. The architecture leverages Node.js with TypeScript, using Redis for caching, MongoDB for persistence, and Socket.IO for real-time event handling. The entire application is containerized with multi-stage Docker builds and deployed on AWS via a full CI/CD pipeline using CodeBuild and ECS.

### ULP95 Fuel Price Prediction



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

### Student Grade Prediction



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