



Gideon Vermeulen

Software Developer & AI Enthusiast

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🌐 github.com/GideonVermeulen

📍 Stellenbosch, South Africa

👤 About Me

Third-year Bachelor of Computing student passionate about robotics, web development, and machine learning. My goal is to solve real-world problems through practical IT solutions.

★ Selected as one of few students to participate in the UCLL International Project, focusing on combating water hyacinth through innovative IT solutions.

I've worked on both front-end and back-end components, especially within educational and research-focused environments. I'm quick to learn, collaborative, and always eager to solve new problems through code.

🎓 Education

2023 - Present Belgium Campus iTversity — Stellenbosch Campus

Bachelor of Computing (BComp) — 3rd Year

Areas of focus: Software Engineering, AI, Web Development

Matriculated 2022 Paul Roos Gimnasium

National Senior Certificate

</> Technical Skills

Languages

JavaScript

C#

Java

Python

SQL

HTML/CSS

C++ (Arduino)

Frameworks / Libraries

Node.js

Express.js

EJS

Flask

JSP

Apache Tomcat

Java Swing

.NET (C#)

scikit-learn

NumPy

YOLO

TensorFlow

Matplotlib

Seaborn

Databases

Tools / Platforms

[SQL Server Management Studio](#)[SQLite](#)[Git & GitHub](#)[Postman](#)[GitHub Pages](#)[MongoDB](#)[JavaDB](#)[PostgreSQL](#)[Render](#)[Discord API](#)[RESTful APIs](#)

Project Experience

Water Hyacinth Detection (UCLL International Project)

[YOLOv8](#)[Python](#)[Arduino](#)[IoT](#)

Developed a YOLOv8-based object detection model to identify water hyacinth as part of an international project focused on environmental solutions. Created a working Arduino-powered demo system that processes images in real-time and communicates results via serial interface.

ULP95 Fuel Price Prediction

[Python](#)[scikit-learn](#)[Flask](#)[Web Scraping](#)

Developed a machine learning model to predict fuel prices in the South African coastal region. Currently integrating web scraping and API input to automate data collection and prediction processes.

Student Grade Prediction

[Python](#)[scikit-learn](#)[Flask](#)[ANN](#)

Created an Artificial Neural Network-powered student grade classifier built in Python with scikit-learn, deployed via Flask on Render. The system predicts student performance based on various academic factors.

For more projects and details, visit my portfolio: https://gideonvermeulen.github.io/CV_Website

Designed & Built by Gideon Vermeulen