Gideon Vermeulen

✉ gideonnicovermeulebn@gmail.com

Software Developer & AI Enthusiast

📞 +27 63 563 2963

🐙 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

SQL Server Management Studio   SQLite

Tools / Platforms

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