

Calvin Nijenhuis

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I'm a Bachelor of Computing student with a passion for building real-world, impactful solutions through software development, automation and robotics. I thrive in environments that value innovation, collaboration, and analytical thinking. Paired with my exposure to the International Mega Project, I approach every project with a practical mindset and a focus on effective results.

Having started my own venture as a teenager, I was introduced to budgeting, communication, and project management skills early on. All these accomplishments, combined with my technical versatility across languages, databases, and frameworks, have shaped me into a driven and adaptable problem-solver eager to contribute to global tech initiatives.

WORK EXPERIENCE

Sticky Bizziness

Founder & Owner • Part-time

Johannesburg

Established and managed a small-scale honey farm, to learn about budgeting, branding, product harvesting, packaging, and customer sales. Developed skills in financial management, marketing, and small business operations at a young age.

Adventure Land Water Park

Customer Service Assistant • Part-time

Plettenberg Bay

Part-time holiday employment as a student. Assisted with navigating kids and adults on various water slides while maintaining facilities in the park.

Howler Event Coordinator

Social Media Marketer • Part-time

Plettenberg Bay

Accepted as a Plett Ragent to attract interest to the Plett Rage festival.

EDUCATION

Belgium Campus ITversity

Bachelor of Computing (BComp)

Stellenbosch • Jan 2023 - Present

Expected Completion in 2026.

Greenwood Bay College

Cambridge Certified AS & IGCSE Levels

Plettenberg Bay • Jan 2020 - Dec 2022

Completed High School and Achieved Matric.

Home-Schooling

Embarked on the GED curriculum and transitioned to Cambridge.

Johannesburg •
Jan 2017 - Dec 2019

Completed Grades 8 & 9 through Homeschooling.

SAHETI School

Primary School

Johannesburg • Dec 2016

Completed Grade 1 - 7.

VOLUNTEERING & LEADERSHIP

Belgium Campus ITiversity

Jan 2024 - Dec 2024

Robotics Club – Lead Organizer

Established a robotics club on our Stellenbosch Campus to explore my own interests in robotics and, in doing so, created a platform for students to implement practical solutions using Arduinos, ESP32s and various other sensors. I managed various student projects that were presented on our Open Day last year.

Greenwood Bay College

Jan 2022 - Dec 2022

Class Representative

Plettenberg Bay

Appointed class representative to provide support and mediate between the students and prefects.

Greenwood Bay College

Aug 2022

Volunteering

Plettenberg Bay

Our student group collected and donated stationery while spending time interacting and playing games with children from a local underprivileged school.

PROJECTS

Telegram Bot

Jan 2025 - Present

NetSellerPay

Designed and developed a fully functional Telegram bot that provided answers to commonly asked questions by various merchant support groups, including looking up the status of transactions via a third-party API. Built using C#, deployed to an Azure WebApp.

Student Wellness Management System

Jul 2025 - Jul 2025

Belgium Campus ITiversity

Developed a desktop-based Wellness Management System in Java for the PRG381 module. The application includes appointment booking, counselor management, and user feedback features. Built with Java Swing and JavaDB using the MVC pattern for maintainability. Implemented full CRUD operations within a tabbed GUI interface and ensured smooth database interaction via Apache Derby.

International Mega Project

Feb 2025 - May 2025

PXL University

Participated in developing a solution to combat the growth of the water Hyacinth which is currently invading many of South Africa's dams. We explored various current technologies during this project, such as Docker and TypeScript. We also implemented an Agile methodology and performed Scrum sprints throughout the project to standardize requirements.

Etzy Replica – Distributed E-Commerce Platform

May 2025 - May 2025

Belgium Campus ITiversity

Built a full-stack distributed e-commerce platform replicating the core functionality of Etzy. Led development of backend services using Node.js, Express, and MongoDB with Mongoose schema design. Integrated MongoDB Atlas and a Dockerized local replica set for testing high availability and performance. Developed the frontend using React, TypeScript, Vite, and Tailwind CSS, with features including dynamic product listings, cart management, and user registration. API includes CRUD functionality for users, products, orders, reviews, and carts. Furthermore, designed and executed performance test scripts to benchmark database read/write under load.

TECHNICAL SKILLS

Languages

- C#
- Java
- Python

Web Development and Design

- CSS
- EJS
- HTML5
- JavaScript
- React
- TypeScript

IDEs and Frameworks

- Apache NetBeans
- IntelliJ IDEA Community Edition
- Visual Studio
- Visual Studio Code

Machine Learning & AI

- Anaconda
- Jupyter Notebooks
- Matplotlib
- NumP
- Pandas
- Scikit-learn
- Seaborn
- XGBoost

Version Control & Workflow

- Agile
- Git
- GitHub
- Scrum

Database Design & Architecture

- MongoDB
- Mongoose
- PostgreSQL
- SQL
- SQL Server Management

Cloud Services & Deployment

- Azure
- GitHub
- Render

API Work & Backend Design

- REST Client