

ANOUK VAN ALPHEN

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I'm a Bachelor of Computing student specializing in Software Engineering, with a growing interest in cloud computing and networking. I love digging into how systems work and how they can be optimized to solve real-world problems.

I bring structured insight and balance to teams. I'm passionate about using logic and creativity together to drive thoughtful, data-informed progress. I value clarity, fairness, and integrity - and I believe great solutions come from understanding both the system and the people it serves. My core strengths lie in creative problem solving, pattern recognition, and a strong sense of responsibility.

Alongside my technical interests, I have classical ballet and contemporary dance training, as well as a passion for visual arts. I find that this artistic background brings a unique and creative perspective to how I approach problem-solving and design.

I work well with people and value meaningful collaboration. My leadership style is hands-on, collaborative, and growth-driven. I perform best in collaborative settings where clear communication, collective responsibility, and principled decision-making guide the work. I focus on creating space for others to lead, while staying closely involved to guide, support, and develop solutions together. I'm passionate about fostering a sense of belonging, encouraging initiative, and helping individuals recognize their strengths. My ability to balance big-picture thinking with daily execution allows me to lead with both empathy and precision.

EXPERIENCE

Python international certificate (2022)

Security fundamentals SC-900 certificate (2022)

Student Council President

2025

As President of the Student Council at the Belgium Campus ITVersity Stellenbosch campus, I take a hands-on and highly involved approach to leadership. I work closely with my team to ensure strong collaboration, open communication, and personal growth for each member.

Some of my responsibilities include:

- Leading and facilitating weekly student stand-up meetings
- Actively supporting my team in their individual responsibilities and initiatives
- Organizing and delegating tasks while remaining involved throughout execution
- Acting as a liaison between students and faculty to address concerns and ideas
- Creating opportunities for leadership development within the team
- Fostering a vibrant, inclusive, and engaging student life

This role has allowed me to grow in my leadership and learn essential people skills. I am particularly proud of mentoring my peers to take ownership of their work and decision-making, which transformed the council into a more independent, resilient, and self-sustaining team. Alongside this cultural shift, I introduced practical improvements such as migrating our entire system to Jira, where I set up approvals and automated workflows to improve efficiency. These initiatives ensured that the council not only thrived under my leadership but is equipped to continue growing beyond my term.

IoT-Based Water Quality Monitoring & Hyacinth Growth Prediction Project

Feb 2025 - May 2025

As part of an international collaborative project between Belgium campus ITVersity and PXL University in Belgium, I worked in a team of three to develop a dashboard that monitors water quality and predicts the spread of invasive water hyacinth in the Hartbeespoort Dam. We made use of a cloud-based database – Supabase – that would store our historical data which would then run through our machine learning models trained to accurately predict water hyacinth growth. We had a docker-containerized dashboard using Vue.js and Vite for the frontend, and a mainly python backend.

Re-learning python as well as other languages, while developing this dashboard was a welcome challenge and a great opportunity to showcase my ability to learn on the job.

Management Skills Training (Udemy – In Progress)

As part of my ongoing effort to grow as an effective leader, I am currently enrolled in the "Management Skills Training for New and Experienced Managers" course on Udemy. This course is helping me develop core management competencies, including team motivation, communication, delegation, and conflict resolution. I'm actively applying these skills in my role as Student Council President, where I lead a diverse team to plan and execute campus initiatives.

Member of the student leadership council

I served as the head of department of the marketing department in 2023 and 2024.

Other projects

I have a strong foundation in C# and a passion for back-end development – alongside the world of cloud computing. A wide range of projects can be found on my [github](#) profile ranging from passions projects, group projects and exercises done in class

EDUCATION

2017-2021

NSC, DF MALAN HIGH SCHOOL

2022

PROGRAMMING FOUNDATION, CTU TRAINING SOLUTIONS

With Python and SC-900 international qualifications.

2023-2025

BACHELORS IN COMPUTING, BELGIUM CAMPUS ITVERSITY

2025-2026



SOFTWARE ENGINEERING HONOURS, BELGIUM CAMPUS ITVERSITY

CORE STRENGTHS & TECHNICAL SKILLS

- Creative and logical problem-solving
- Strong conceptual and systems thinking
- Pattern recognition and process improvement
- Ethical decision-making and accountability
- Effective communicator and active listener
- Adaptability to new technologies and challenges
- Experience in Python; foundational knowledge in cloud and network security
- Basic understanding of Microsoft SC-900 and cybersecurity principles
- Version control (Git), Agile teamwork exposure
- Building projects that integrate both frontend and backend technologies
- Jira project management
- C#
- Java
- HTML
- CSS
- JavaScript
- SQL

INTERPERSONAL & LEADERSHIP SKILLS

- Organized and dependable with a strong follow-through ethic
- Comfortable with complexity and ambiguity; quick to identify core issues
- Excellent at spotting inefficiencies and offering structured improvements
- Values fairness, responsibility, and clear communication
- Team player with a growing leadership mindset
- Skilled in presenting ideas with clarity and authenticity
- Comfortable working independently with focus and discipline
- Comfortable taking charge or following leadership

SUBJECTS COMPLETED:

- Linear Programming (181, 281, 381)
- Machine Learning
- Software Engineering (SEN381) – in progress
- Programming (181, 182, 281, 282, 381)
- Web Programming (181, 281, 381)
- Mathematics (181, 281)
- Network Development
- Project Management (281, 381)
- Research Methods
 - With a research proposal on “Dynamic resource allocation in a multi-cloud environment”
- Computer Architecture and Design
- Information Systems (181, 281)
- User Experience Design
- Database Development (181, 281, 381)
- Entrepreneurship
- Innovation and Leadership (INL101, INL102, INL201, INL202)
- Internet of Things
- Software Analysis & Design
- Statistics (181, 281)
- Academic Writing

LANGUAGES:

- Afrikaans: Native or bilingual proficiency
- English: Native or bilingual proficiency
- Korean: Limited working proficiency
(in progress)