



Rijk de Wet

Software Engineer

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 Montagu, South Africa

 rijk.dev

 rijk-de-wet

 rijkdw

SUMMARY

I'm a full-stack software engineer with 3 years of experience. I'm a fast learner, a hard worker, and an enthusiastic teammate. I want to write code that solves real problems for real people. I care about a codebase's health over the long run, eliminating technical debt as I go, leaving the code cleaner than I found it. I'm looking for an intermediate / senior role where I can make meaningful contributions and make a difference in the world.

SKILLS

JavaScript
TypeScript
Node.js
React
Next.js
Tailwind CSS
Python
GraphQL
PostgreSQL
Docker
AWS
Automated testing
Design patterns
Code maintenance
Scientific computing
Technical writing
Documentation

EXPERIENCE

Omni Calculator  2023 – Present
Software Engineer Kraków, Poland (remote)
Omni Calculator is a Polish startup that turns everyday questions into easy-to-use calculators. At Omni, I:

- Worked across our full tech stack in a monorepo with more than 20 packages.
- Improved our mathematical engine and equations solver, including parallelising solving routines and implementing maths functions not supported by libraries.
- Took ownership of our custom-built equations solver, making most changes myself and personally reviewing any changes made by colleagues.
- Assisted with designing and implementing from scratch our user accounts system, covering AWS Cognito authentication, session handling, permissions, and GDPR-compliant user data handling.
- Assisted with implementing an AI calculator builder that turns users' natural language prompts into a specialised domain language to power working calculators.
- Frequently collaborated with product owners, designers, and other stakeholders to iterate towards workable features while remaining within technical constraints.
- Took initiative on improving developer experience with better tooling across our codebases.
- Designed, built from scratch, and maintained the company's time logging Chrome extension, giving the C-suite data to better plan special projects and estimate the costs thereof.

Omni Calculator  2021 – 2023
Content Writer Kraków, Poland (remote)
I created more than fifty calculators for a variety of real-world problems related to engineering, mathematics, music, and video games. For each calculator, I wrote accompanying SEO-oriented articles. I prided myself on tackling more complex or niche topics, and many of my pages are in the top 3 of Google's search results.

Computer Science Division, 2022
Stellenbosch University  Stellenbosch,
Junior Lecturer South Africa
I was responsible for the curation of projects for three introductory programming modules at Computer Science, each held over the span of a semester. I developed these projects from scratch; this included creating a memo that meets the specifications, developing testing clients for assessments, and writing all documentation and specifications. In addition, I managed a supporting team of 20 senior students, tutored the classes on project-related topics in specialised sessions, and responded to student queries.

Engineering Faculty, 2019
Stellenbosch University  Stellenbosch,
Director – Engineering Winterweek South Africa
I led a multi-disciplinary committee of 13 engineering students to arrange the Winterweek with a budget of R500,000. Worked closely with Engineering faculty staff.

LANGUAGES

English – Native/Bilingual

Afrikaans – Native/Bilingual

REFERENCES

Jarosław Bąk-Hojowski,
Team Leader (2025-2026),
Omni Calculator
jaroslaw.bak24@gmail.com

Dariusz Walczy-Antkowicz,
Team Leader (2023-2025),
Omni Calculator
dariusz.walczy.antkowicz@gmail.com

EDUCATION

Master of Engineering (Data Science) 2021 – 2022
Stellenbosch University
Stellenbosch University 
I learnt to develop innovative optimization and machine learning techniques to produce novel, efficient and robust data science technologies, for use in industrial engineering, engineering management, and related applications.

Bachelor of Engineering (Electrical & Electronic) 2016 – 2020
Stellenbosch University  Stellenbosch, South Africa
I studied high-level computer science and software systems such as Internet communication, web development, machine learning, and the design of both hardware and software.

National Senior Certificate 2011 – 2015
Paul Roos Gymnasium  Stellenbosch, South Africa

PUBLICATIONS

Set-based Particle Swarm Optimization for Data Clustering: Comparison and Analysis of Control Parameters  07/2023
ACM Digital Library
A journal article in the proceedings of ISMSI 2023 detailing the capstone project of my master's degree. I applied a novel set-based adaptation of the classical particle swarm optimization to the problem of data clustering. I implemented the algorithm from scratch, performed hundreds of experiments to tune algorithm hyperparameters in a custom-built experiment pipeline, and used statistical tests to interpret the results.