

Jason Wille

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Profile

Enthusiastic software engineer and computer science student with hands-on experience in Java, Vue, Spring, and Google Cloud. Skilled in developing scalable solutions, mentoring students, and delivering impactful software projects. Passionate about machine learning and eager to apply technical skills to innovative challenges. Committed to continuous learning and contributing to a dynamic team environment.

Experience

Software Engineer II Mar 2025 – Present

Advance.io

- I continued to consult to the global tech company and offered more in terms of my DevOps experience. I also became the companies captain for the J.P. Morgan Corporate Challenge by taking the initiative to organise the event for colleagues.

Software Engineer I Mar 2023 – Feb 2025

Advance.io

- I mentored third-year computer science students from the University of Pretoria on their capstone project, helping them apply industry practices. I also consulted to a global tech company, working with Java, Vue, Spring, Google Cloud and Docker to develop scalable, cloud-based solutions.

Associate Software Engineer Jan 2022 – Feb 2023

Advance.io

- As a part-time intern in 2022, I focused on feature development using Spring, Kotlin and Vue, along with automated frontend testing using Cypress, to enhance the stability and functionality of a time clocking solution.

Education

University of the Witwatersrand Jan 2024 – Present

Master of Science - MSc, Computer Science

- **Grade:** In Progress

University of Pretoria Jan 2022 – Dec 2022

Bachelor of Science Honours - BScHons, Computer Science

- **Grade:** Graduated with Distinction

University of Pretoria July 2018 – Dec 2021

Bachelor of Science - BSc, Computer Science

- **Grade:** Graduated

Projects

LLMs and African Language [GitHub](#)

- Fine-tuned XLM-RoBERTa on a Swahili dataset for masked language modeling and news classification tasks. Achieved a significant reduction in perplexity during pretraining, improving the model's understanding of Swahili. Demonstrated higher accuracy and overall performance on Swahili news classification compared to the base model, using cutting-edge transformer architectures.

Reconnaissance Blind Chess Bot [GitHub](#)

- A custom implementation of a Reconnaissance Blind Chess bot using the library reconchess.

AR/VR-GAN [GitHub](#)

- AR/VR-GAN is a visualization tool allowing a user to explore the feature space of a Variational Autoencoder

in real time through a VR Device.

Certifications

- CS50's Introduction to Artificial Intelligence with Python [↗](#)
- Associate Cloud Engineer Certification [↗](#)
- Machine Learning Specialization [↗](#)
- Neural Networks and Deep Learning [↗](#)
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization [↗](#)
- Structuring Machine Learning Projects [↗](#)

Technologies

Languages: Java, SQL, JavaScript, TypeScript, Kotlin, Python

Technologies: Spring, Vue, Docker, Google Cloud (GCP), PostgreSQL, Git, PyTorch, NumPy, pandas, scikit-learn

Tools: IntelliJ IDEA, Microsoft Azure DevOps, Jira, DBeaver, pgAdmin, Weights & Biases, TensorBoard