

# Jason Wille

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in jasonwille97    🐙 jmanwillz

## Profile

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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

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**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

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**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


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**Guide to Agentic AI** [GitHub](#) 

- This project-based tutorial provides a deep understanding of how powerful AI tools work by guiding you through the creation of an agentic loop powered by tool calling.

**RMCP Project** [GitHub](#) 

- This repository serves as the codebase for the project titled “Representation Learning from Mass Spectrometry Imaging using VAEs”.

**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

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- 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 
- Learn React 

## Technologies

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

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

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