

# GAVIN GOODWILL WAAKO

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## SUMMARY

I'm deeply interested in software engineering, machine learning, and data science. In the near future, I see myself working as an ML Research Scientist, publishing research, and building next-generation AI software systems that push the boundaries of what's technologically possible. Recently, I've been diving deep into the architecture and implementation of deep neural networks, Transformers, LLMs, etc.

## WORK EXPERIENCE

**Loadshedding Visualizer**, *PyTorch, React/React Native, SQL, Docker* <https://grid-zero.co.za/> Aug. 2021 – Dec. 2024

- Built a loadshedding model for South Africa, trained on Eskom national grid data, with more than 80% prediction accuracy (*PyTorch, React, JavaScript, Docker*).

**Nana's Closet**, *React/React Native, Node.js, Express.js, MongoDB, Docker* <https://nanascloset.co.za/> Aug. 2021 – Dec. 2024

- Led the design and deployment of an AI-powered e-commerce system, processing online payments, cutting operational inefficiencies by 80% (*PyTorch, React, JavaScript, Docker*).

**Nana's Closet**, *React/React Native, Node.js, Express.js, MongoDB, Docker* <https://nanascloset.co.za/> Aug. 2021 – Dec. 2024

- Led the design and deployment of an AI-powered e-commerce system, processing online payments, cutting operational inefficiencies by 80% (*PyTorch, React, JavaScript, Docker*).

## LEADERSHIP EXPERIENCE

**Computer Science Club**, *MassBay Community College* Member Sept. 2025 – Present

- Built a loadshedding model for South Africa, trained on Eskom national grid data, with more than 80% prediction accuracy (*PyTorch, React, JavaScript, Docker*).

**International Students Association**, *MassBay Community College* Member Jan. 2025 – Present

- Built a loadshedding model for South Africa, trained on Eskom national grid data, with more than 80% prediction accuracy (*PyTorch, React, JavaScript, Docker*).

## EDUCATION

**MassBay Community College**, ASc in Computer and Information Sciences Boston, MA Jan 2025 — Present

- Relevant courses: Java Programming I & II, Python Programming, Data Structures & Algorithms, Discrete Mathematics, Calculus I & II, Systems Programming with C, Computer Architecture and Assembly Language.

## HONOURS & AWARDS

**2x Dean's List Nominee**, Spring 2025 through Fall 2025, MassBay Community College Nov. 2024

**Inducted into Phi Theta Kappa Honor Society**, MassBay Community College Jan. 2025

## SKILLS & INTERESTS

**Programming Languages:** Java, Python, TypeScript, SQL.

**Frameworks:** PyTorch, Next.js, React/React Native, Redux Toolkit, Node.js

**Dev Tools:** Git, Docker.

**Libraries:** pandas, NumPy, Matplotlib

**Professional Certifications:** AWS Certified Cloud Practitioner

**Languages:** English (Native), Spanish (Limited working proficiency)

**Interests:** Software Engineering, Artificial Intelligence, Data Science, and Machine Learning.