SEAN PRINCE TINASHE HUVAYA

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Summary

I am a mid-level software engineer who possesses robust backend development experience and has advanced studies in artificial intelligence. I have successfully built high-performance applications and scalable integrations, including an NPM package for payment gateways. I am currently pursuing a master's degree in AI, and with my strong proficiency in Python, R, and AI frameworks, I am well-positioned to make significant contributions to innovative AI projects.

Skills

- **Programming Languages**: Python, R, Java, SQL
- **Machine Learning & Data Science Tools**: PyTorch, Scikit-learn, Pandas, Numpy, Matplotlib, Machine Learning, Computer Vision
- **Data Management**: PostgreSQL, MySQL
- **Other Technical Skills**: GitHub, Docker, AWS, RESTful APIs

Work Experience

Yeshiva University | *Supplementary Instructor - Introduction to Data Science* **Aug 2024 - Present**

- Tutored students in R programming for statistical modeling, data manipulation, and data science applications, reinforcing practical machine learning techniques
- Assisted students with key data science and ML concepts, including clustering, logistic regression, linear regression, and exploratory data analysis
- Guided students in applying machine learning methods to real-world datasets, strengthening analytical and research skills

CGA Technologies | *Software Engineer* **Oct 2022 - Aug 2023**

- Enhanced MySQL database efficiency, reducing API latency by over 10% for data-driven operations
- Developed and implemented two custom Vue.js UI components, streamlining code reusability and improving testing efficiency across the platform
- Engineered more than 10 feature improvements for the Social Cash Transfer Programme, utilizing Java to deliver robust application enhancements

CodeVirtus | *Backend Developer* **Jun 2021 - Nov 2022**

- Designed an NPM package to facilitate integration with PesePay payment gateway, achieving 40+ weekly downloads and expanding system interoperability
- Contributed to a seven-member agile team, customizing open-source projects and collaborating to align solution with client requirements
- Developed an image bank feature, enabling real-time image resizing with Java and SpringBoot, optimizing performance

Invenico | *Software Engineer* **Apr 2019 - May 2021**

- Spearheaded client-focused system improvements, conducting needs assessments and implementing technological enhancements to support organizational processes
- Refactored legacy code to attain 72% test coverage, reducing bugs and enhancing system reliability
- Delivered successful technical solutions for three major projects, leveraging expertise in Java to optimize functionality for end users

Invenico | *Android Developer* **Jun 2018 - Mar 2019**

- Created a POS Android application to manage meal purchases, now actively used by 20+ employees at MIMOSA
- Developed MITAS POS Android application, which has since been adopted by four organizations to support secure transactions with tap card functionality
- Enhanced the BUS POS application for ZUPCO by integrating receipt printing capabilities, expanding the app's versatility for public transport use cases

Education

Yeshiva University **Expected Dec 2025**
Master of Science, Artificial Intelligence

University of Zimbabwe **Aug 2017 – Dec 2022**
Bachelor of Business Studies and Computing Science

Projects

Deep Learning-Based Canine Cardiomegaly Detection | Research Paper **Apr 2025**
Yeshiva University — Computer Vision Mini Research Project

- Designed and trained a ResNet-101-based CNN to detect six key anatomical points in canine thoracic X-rays for automated Vertebral Heart Size (VHS) estimation.
- Achieved a mean absolute error (MAE) of 0.798 and MAPE of 8.64% on a real-world dataset of 2,000 dog radiographs.
- Developed a custom PyTorch pipeline with data augmentation, keypoint regression, and real-time inference capabilities.