Taiwo Rabiu

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EDUCATION

McMaster University   May 2025
Computer Engineering (Co-op) B.A.Sc. **GPA: 3.8/4.0**   *Hamilton, Ontario*
- **Relevant Coursework:** Data Structures and Algorithms, Advanced Computer Networking and Security, Fundamentals of Machine Learning, Operating Systems, Distributed Systems, Real-Time Programming Systems
- **Honors/Awards:** Golden Key International Honor Society (2022), Dean's Honor List (2020-2024), President's Scholarship (2020)

EXPERIENCE

Amazon   Toronto, Ontario
Software Development Engineer (SDE) Intern   *May 2024 – Aug 2024*
- Developed **GET and POST APIs** in **Java** to retrieve and process detailed employee activity time segments, leveraging **object-oriented design principles** to enhance Amazon's activity dashboard functionality.
- Built and integrated distributed **UI components** with **Angular.js** deployed on **AWS**, benefiting **3,000+ managers** and **1.3 million+ Associates** by optimizing **multi-tiered systems** for efficiency.
- Implemented **optimization techniques** in **API response times**, improving load speed by **20%**, enhancing user satisfaction and efficiency.
- Conducted **20+ code reviews** focusing on **design patterns** and **best practices**, fostering adherence to **coding standards** and increasing overall code quality.

TD Bank   Toronto, Ontario
Software Engineering Intern / Backend Engineer   *May 2023 – Dec 2023*
- Developed a **Java** automation tool, reducing manual processing by **50% and errors by 30%**
- Enhanced project efficiency using **Agile/Scrum**, contributing to improved customer satisfaction
- Facilitated a zero-loss data migration project, demonstrating strong data management capabilities
- Built and maintained **RESTful APIs** with **Spring Boot**, improving system integration and performance, leading to a **20% reduction in response times**
- Fostered team collaboration across engineering disciplines, ensuring high-quality software development

PROJECTS

Lunar Lander Reinforcement Learning Hackathon (Winner)   Dec 2024
- Developed **Deep Q-Networks (DQN)** and **Proximal Policy Optimization (PPO)** agents using **Python and PyTorch**, achieving a winning test reward of **285.30**.
- Optimized agent performance with **hyperparameter tuning**, tile coding, experience replay, and trust region updates.
- Evaluated **value-based** and **policy-based** methods through learning curve analysis, driving optimization.
- Demonstrated expertise in **reinforcement learning**, solving a complex lunar landing challenge.

Intelligent Email Sorting Chrome Extension   Sep 2024
- Achieved **90%** email classification accuracy with **spaCy** and **NLTK** models for sorting (**Work, Personal, Urgent, Promotional**).
- Built **Node.js** backend with **real-time** email retrieval via **Gmail, Outlook, and Yahoo APIs**.
- Designed **cross-browser** UI (**HTML, CSS, JavaScript**) for customizable sorting rules.
- Reduced **inbox management time by 30%** through extensive testing and **GDPR-compliant** optimizations.

SKILLS

Programming: 7+ years of experience including Python | Java | C/C++ | JavaScript | React | Next.js | Spring/Spring Boot | HTML5 | CSS3 | Node.js | Ruby on Rails

Cloud: AWS | Google App Engine | Docker

Version Control: Git | SourceTree

Operating Systems: Linux/Unix

Database Management: SQL | PostgreSQL | MongoDB | DynamoDB