Jiro Kakpovbia

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Education

University of Waterloo Waterloo, ON

Bachelor of Computer Science, BCS *Expected Dec 2027*

- **Awards:** Varsity Football Athletic Scholarship, President's Scholarship of Distinction, President's Athlete Academic Honour Roll Distinction, CJ Moore Memorial Award, Jacob Wehrle Memorial Scholarship.
- **Relevant Courses:** Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Tools and Techniques for Software Development, Data Structures and Data Management.

Technical Skills

Languages: Python, C, C++, C#, Java, JavaScript, TypeScript, PHP, HTML, CSS, SQL, GraphQL, BASIC, Racket.
Developer Tools: Git, Docker, MySQL, cron, cURL, CI/CD, Linux, Bash, Powershell, Terminal, Vim, VS Code, Jira.
Frameworks and Libraries: Node.js, Express.js, Processing.js, React, Tailwind CSS, .NET, Unity, TensorFlow, AOS.

Experience

Back-End Software Engineer Sep 2024 – Dec 2024

University of Waterloo's Print + Retail Solutions *Waterloo, ON*

- Developed a Middleware application to streamline data exports to online store using Shopify's **GraphQL Admin API** and **Docker**, eliminating manual data entries and achieving a **36x reduction** in processing time.
- Created and optimized **UniVerse BASIC** and **Bash** scripts for product data exports, supporting the migration of Print + Retail Solutions' online e-commerce platform from **Magento** to **Shopify**.
- Configured, troubleshot, and tested **10+** Linux systems, registers, and network setups for synchronized operations, supporting live retail events and increasing system uptime by **15%**.

Full-Stack Web Developer Jan 2024 – Apr 2024

University of Waterloo's Print + Retail Solutions *Waterloo, ON*

- Refactored product data export workflows, achieving a **25%** improvement in export speeds using **UniVerse BASIC** and **Bash**, while enhancing data accuracy.
- Enhanced back-end reliability by **30%** through independently debugging, writing, and modifying **15+ UniVerse BASIC and SQL scripts** for inventory and e-commerce integration.
- Improved user experience for **1300+** faculty members by redesigning forms with **HTML**, **CSS**, **JavaScript**, **PHP**, and **SQL**, simplifying submission workflows and reducing errors.

Projects

VRToShopify | *UniVerse BASIC, Node.js, JavaScript, Bash, Docker, MySQL* Sep 2024 – Dec 2024

- Developed **Node.js** and **Docker-based** Middleware application, creating **MySQL schema definitions** and optimizing **GraphQL API** interactions to reduce bulk import duration from **3 hours** to **5 minutes**.
- Employed **robust error-checking** to ensure data accuracy, removing **200+ invalid products** from exports.
- Conducted **knowledge transfer session** with my supervisor and coworkers, explaining the **design architecture** and **key workflows** of the application to reduce onboarding time for future co-op students.
- Refactored data export processes by designing and implementing **UniVerse BASIC** and **Bash** scripts, converting **Magento-specific** attributes to **Shopify-compatible** formats.

Chess Engine | *C++, Object-Oriented Programming* Jul 2024 – Sep 2024

- Developed a fully functional **Chess Engine**, employing **UML** design models and implementing **20+ class hierarchies** using the **Model-View-Controller** architecture pattern.
- Designed and implemented **3 AI scripts** for 3 levels of match difficulty, enhancing the complexity of gameplay.
- Independently implemented **20+ additional functionalities** after the assignment deadline, improving engine efficiency by **16%**, enhancing user experience, and improving the realism of simulated chess play.

iPauler: The Jake Paul AI Simulator | *Python, TensorFlow* Oct 2022 – Dec 2022

- Developed a home assistant AI using **Python** and **TensorFlow**, replicating Jake Paul's personality.
- Utilized **advanced AI** and **machine learning techniques** to replicate Jake Paul's voice, implementing a text-to-speech system supporting **15+ distinct commands**.
- Deployed a **Raspberry Pi 3b** to control an LCD and LED system, enhancing the user interface by providing **real-time command execution feedback**.