Jiro Kakpovbia

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Computer Science, BCS   *Expected Aug 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, Logic and Computation, Object-Oriented Software Development.

EXPERIENCE

Back-End Software Engineer, Co-op   Sep 2024 – Dec 2024
University of Waterloo's Print + Retail Solutions   *Waterloo, ON*
- 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**.
- 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.
- Configured, troubleshot, and tested **10+ Linux systems and registers** for the University of Waterloo's Convocation and monthly pop-up shops, utilizing **network switches** for synchronized operations.

Full-Stack Web Developer, Co-op   Jan 2024 – Apr 2024
University of Waterloo's Print + Retail Solutions   *Waterloo, ON*
- Enhanced the W Store's back-end functionality by independently debugging, writing, and modifying **15+ scripts** in **UniVerse BASIC** and **SQL**, improving system reliability by **30%**.
- Refactored product data export processes from inventory management system to online e-commerce platform through **UniVerse BASIC** and **Bash**, increasing export speed by **25%**.
- Streamlined the exam and print requisition process for **1300+ faculty members** by redesigning forms and consoles using **HTML**, **PHP**, **SQL**, and **JavaScript**.

PROJECTS

VRToShopify, Print + Retail Solutions | *UniVerse BASIC, Node.js, Docker, MySQL*   Sep 2024 – Dec 2024
- Refactored data export processes by designing and implementing **UniVerse BASIC** and **Bash** scripts, converting **Magento-specific** attributes to **Shopify-compatible** formats, and employing **robust error-checking** mechanisms to ensure data accuracy, removing **nearly 200 invalid products** from exports.
- Enhanced data import workflows for Shopify by developing a **Node.js** and **Docker-based** Middleware application, creating **MySQL schema definitions** for products and collections, and optimizing **GraphQL API** interactions to reduce bulk import duration from **3 hours** to **5 minutes**.

Chess Engine, Group Project | *C++, Object Oriented Programming*   Jul 2024 – Sep 2024
- Collaborated with **2 students** to create a chess engine consisting of **20+ class hierarchies** using the Model-View-Controller architecture pattern.
- Developed **3 AI scripts** to control computer players, enabling distinct levels of human-computer match difficulty.
- Independently implemented **20+ additional functionalities**, boosting engine efficiency by **16%**, enhancing user experience, and improving realism of simulating real-life chess play.

Requisition Forms, Print + Retail Solutions | *HTML, PHP, JavaScript, MySQL*   Feb 2024 – Apr 2024
- Streamlined Exam Requisition Form submissions for **1000+ users** through **HTML**, and integrated real-time error validation via **JavaScript** to reduce submission errors by **100%**.
- Refactored the Print Requisition Form confirmation email system to optimize formatting consistency through **HTML** and literal space formatting, increasing print processing efficiency by **50%**.
- Redesigned Exam Print, Scan, and Billing Consoles, adding **7+ new functionalities** using **JavaScript**, including dynamic summary tabs and **SQL database** updating functionalities, enhancing workflow management by **15%**.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, PHP, HTML, CSS, SQL, GraphQL, BASIC.
Developer Tools: Git, Node.js, MySQL, Docker, cron, cURL, Linux, Bash.
Frameworks and Libraries: React, Express, Unity, TensorFlow, Tailwind, AOS.