

Jiro Kakpovbia

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science, BCS

Expected August 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

September 2024 – December 2024

University of Waterloo's Print and Retail Solutions

Waterloo, ON

- Created and optimized **UniVerse BASIC** and **Bash** scripts for product data exports, supporting the migration of Print and Retail Solutions' online e-commerce platform from **Magento** to **Shopify**.
- Automated product, collection, and navigation exports to Shopify using **GraphQL** and **Shopify APIs**, eliminating manual product entries and increasing upload speeds by **80%**.
- Configured and tested **10+ Linux systems and registers** for the University of Waterloo Convocation and monthly pop-up shops, utilizing **network switches** for synchronized operations.

Full-Stack Web Developer, Co-op

January 2024 – April 2024

University of Waterloo's Print and 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**.

Varsity Athlete

August 2022 – August 2024

University of Waterloo Varsity Football

Waterloo, ON

- Balanced a **30-hour weekly training schedule** with a full academic course load, demonstrating exceptional **time management** and **prioritization** skills.
- Led the team to the **OUA Playoffs** in second season while honing **problem-solving** skills, establishing **resilience**, and illustrating **strong work ethic** through major injury rehabilitation.

PROJECTS

Chess Engine, Group Project | *C++, Object Oriented Programming*

July 2024 – September 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.

Print and Retail Solutions' Requisition Forms | *HTML, PHP, JavaScript, SQL*

February 2024 – April 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%**.
- Configured Exam Consoles to generate CSV files via **PHP**, streamlining billing information processing for print batches.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, PHP, HTML, CSS, SQL, Bash, BASIC.

Developer Tools: Git, Node.js, MySQL, GraphQL, Docker, Cron, cURL, Linux, SSH, Bash, Terminal.