

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, Data Structures and Data Management, Foundations of Sequential Programs, Computer Organization and Design.

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, JavaScript, TypeScript, PHP, HTML, CSS, BASIC, XAML, SQL, GraphQL.
Frameworks: Node.js, Next.js, Express.js, Processing.js, Tailwind CSS, .NET, Xamarin, Jest, xUnit.
Libraries: React, Redux, TensorFlow, PyTorch, NumPy, Matplotlib, AOS, OpenCV, Material UI.
Developer Tools: Git, Docker, Linux, Bash, MySQL, SQLite, Postman, Swagger, Figma, Storybook, Unity, Azure, Jira.

EXPERIENCE

Junior Software Developer

May 2025 — Present

The Equitable Life Insurance Company of Canada

Waterloo, ON

- Built and maintained **back-end** features in a **10-member Agile team** using **C#, .NET, xUnit**, and **SQL**, including **RESTful API** design and database optimization, for an eApp redesign scalable to **1 million clients**.
- Utilized **React, Redux, TypeScript**, and **Material UI** components to create **front-end** webpages, managing continuous containerized deployments with **Docker** while maintaining **100% test coverage** through **Jest**.
- Leveraged **Azure OCR** to develop and demo a prefill feature **proof of concept** for the eApp, enabling automated data extraction from scanned documents to improve data accuracy and reduce manual data entry by **13%**.

Back-End Software Engineer

Sep 2024 — Dec 2024

Print + Retail Solutions, University of Waterloo

Waterloo, ON

- Developed a Middleware application using **Node.js, Docker** and Shopify's **GraphQL Admin API** to automate exports to the company's online store, reducing processing time from **3 hours** to **5 minutes**.
- Created and optimized **BASIC** and **Bash** scripts for data export pipelines, facilitating the successful migration of the company's online store from **Magento** to **Shopify** with improved data consistency and error handling.
- Configured and troubleshot **10+ Linux-based** point of sale and network systems to ensure seamless operation during live retail events, improving system uptime by **15%** and reducing onsite tech support needs.

Full-Stack Web Developer

Jan 2024 — Apr 2024

Print + Retail Solutions, University of Waterloo

Waterloo, ON

- Refactored legacy product data export workflows using **BASIC** and **Bash**, achieving a **25%** increase in export speed while enhancing data accuracy through added validation and error-handling mechanisms.
- Enhanced back-end reliability by **30%** through independently debugging, writing, and modifying **15+ BASIC and SQL scripts** for inventory and e-commerce integration.
- Improved user experience and form usability for **1300+** faculty by redesigning front-end workflows using **HTML, CSS, JavaScript, PHP**, and **SQL**, reducing submission errors and streamlining multi-step workflows.

PROJECTS

trackr - Finance Tracker | C#, .NET, XAML, SQLite

Apr 2025 — Aug 2025

- Designed and implemented a cross-platform mobile application following the **MVVM architecture pattern**, using **C#, .NET**, and **XAML** to deliver real-time insights into account balances and transactions across banks.
- Engineered a mapping-based CSV parser with configurable data entries to support **5+ financial institutions**.
- Implemented **SQLite database** integration to ensure **100% data persistence**, eliminating repeated user setup.

VRToShopify - Middleware Automation | Node.js, Docker, MySQL, BASIC, Bash

Sep 2024 — Dec 2024

- Produced a **Node.js** and **Docker-based** Middleware application for Shopify imports, achieving a **36x** reduction in bulk import duration through **MySQL** schema optimizations and **GraphQL Admin API** interactions.
- Overhauled **BASIC** and **Bash** scripts to remove **200+** malformed product records from data exports through comprehensive validation logic, and led a **KT session** outlining system architecture and key workflows.