Joshua Ndala

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EDUCATION

University of British Columbia
Bachelor of Arts in Computer Science

SKILLS & INTERESTS

Programming Languages: Java, Python, JavaScript, R, SQL

Web Development: HTML, CSS, JavaScript, React, Next.js, Express.js, Node.js, RESTful APIs

Tools and Software: GitHub, Docker, Ollama, Google Cloud Platform, Google Colab

PROFESSIONAL EXPERIENCE

Triumph College Consulting   **Canada (Remote)**
Web Developer (Freelance)   *Aug 2024 - Present*
- Developing a comprehensive website for Triumph, a college consulting company, to showcase their services, team, and contact information.
- Utilizing Next.js and Tailwind CSS to create a modern, responsive, and user-friendly web interface.
- Implementing features to effectively communicate the company's offerings and facilitate client engagement.

UBC For Learnification   **Kelowna, BC**
Software Developer   *May 2024 - Aug 2024*
- Developed an AI-powered assignment grading system for the ed-tech startup Learnification, improving grading speeds by **75%** while maintaining data security.
- Led back-end development using JavaScript (Express.js, Node.js) and designed SQL queries for efficient MySQL database interactions. Implemented comprehensive testing using Mocha and Chai.
- Contributed to front-end development with React and Material-UI, improving user satisfaction by **15%**. Utilized Jest for front-end testing to ensure code reliability.
- Implemented AI functionality using Microsoft's Phi-3 LLM through Ollama, enabling efficient and secure local processing of assignments.
- Conducted usability testing, resulting in a **20%** improvement in user satisfaction scores.
- Managed version control and containerization using GitHub and Docker, implementing CI/CD best practices.

PROJECT EXPERIENCE

Automated Fake News Detection on Social Media   **Kelowna, BC**
Researcher / Software Developer   *Jan 2024 - Apr 2024*
- Engineered data pipelines for processing and analyzing large datasets, implementing LSTM, RNN, and BERT models with **99%** accuracy on news datasets and **50%** on tweets.
- Optimized BERT, achieving **73%** accuracy on Bangladeshi tweets, showcasing adaptability to different linguistic contexts.
- Conducted sentiment analysis on fake vs. real news, revealing minimal differences and highlighting challenges in sentiment-based detection.
- Contributed findings to open-source research, addressing the complexities of applying models to short-form social media content. Available on GitHub.

ForumRank Website   **Kelowna, BC**
Software Developer   *Jan 2023 - Apr 2023*
- Collaborated with a team to develop a custom-designed discussion post website with a hand-styled layout, contextual menus, and a responsive 3-column design.
- Implemented form validation, server-side scripting (PHP), and MySQL database integration for secure and dynamic functionality.
- Utilized AJAX technology for real-time search results, interactive content filtering, and enhanced user experience.
- Enabled user image uploads, simple discussion grouping, and display for intuitive navigation and engagement.

Public Library System   **Kelowna, BC**
Software Developer   *Sep 2022 - Dec 2022*
- Collaborated with a team to design, develop, and implement a booking system for a public library that functions as a record keeper of the library's books and a service console for both library staff and users.
- Integrated various APIs, including Google Books, TVMaze, and JokeAPI, into the software architecture to broaden functionalities & bolster user interaction rate.
- Developed Java application using JavaFX for the user interface and MySQL for the database. Available on GitHub.