Joshua Ndala

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PROFESSIONAL EXPERIENCE

TRIUMPH College Consulting   **Toronto (Remote)**
Freelance Web Developer   *Aug 2024 - Dec 2024*

- Developed a full-stack website for Triumph College Consulting using Next.js and Tailwind CSS, featuring dynamic content management and responsive design
- Implemented key features including student success tracking, scholarship management, and consultation scheduling
- Enhanced user experience through intuitive UI/UX design and streamlined contact interfaces

UBC For Learnification   **Kelowna, BC**
Full-Stack 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 full-stack development using Express.js/Node.js backend with MySQL and React/Material-UI frontend, implementing comprehensive testing with Mocha, Chai, and Jest
- Implemented AI functionality using Microsoft's Phi-3 LLM through Ollama for efficient local processing, improving user satisfaction by **20%**
- Managed version control and containerization using GitHub and Docker, implementing CI/CD best practices

PROJECT EXPERIENCE

CoverForMe - AI Cover Letter Generator   **Toronto (Remote)**
Full-Stack Software Developer   *Jan 2025 - Present*

- Engineering a full-stack application using React and FastAPI that automatically generates tailored cover letters by analyzing resume content against job descriptions, reducing writing time by **80%**
- Implementing secure user authentication using Firebase, including Google OAuth integration, and designing a PostgreSQL database schema on AWS RDS for efficient data management
- Developing an AI pipeline using AWS Bedrock (Llama 3 and Claude Opus) and LangChain for intelligent content generation and skills matching
- Implementing a custom transformer model for accurate skill-to-requirement comparison, enabling precise matching between user experiences and job qualifications

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 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.

EDUCATION

University of British Columbia
Bachelor of Arts in Computer Science

TECHNICAL SKILLS

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

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

Tools and Software: GitHub, Docker, AWS, GCP, Ollama, Google Colab, Firebase