Victor Calbucci

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EDUCATION

University of British Columbia, Vancouver, BC   *Expected Graduation, May 2027*
B.S. Computer Science 3rd year
GPA: 87.1/100   *Dean's List*

EXPERIENCE

Wenco International (Hitachi Subsidiary)   *Jan 2026 – present*
- Developed a Python and PowerShell–based CLI to audit system components and validate environment compatibility for customer deployments with automated build, packaging, and distribution workflows using PowerShell
- Built an internal React (JavaScript/JSX) web application to allow non-technical stakeholders to upload, validate, and review input data generated for the CLI
- Collaborated with senior engineers to iterate on tooling design, incorporating feedback from internal testing and real deployment environments

Southend United FC   *Feb 2025 – April 2025*
Machine Learning Engineer Intern
- Developed an internal tool to process soccer match clips using computer vision
- Implemented CNN-based player tracking model, spatial relationships, and coverage metrics from raw game video
- Trained K-means clustering model to assign team affiliations based on color histograms of player jerseys, achieved 99% classification accuracy
- Designed and deployed computer vision pipeline leveraging OpenCV and custom metric computation tools

PROJECTS

WorldView - AI-Powered Real-Time Translation App - https://github.com/vcalbucci/llama4-hackathon

- Developed full-stack camera application with AI integration for real-time image analysis, translation, and contextualization with support for 9 languages
- Implemented pipeline using Flask backend; integrated OpenAI and Llama APIs for image-to-text processing
- Engineered REST API architecture supporting image processing, translation, and text-to-speech synthesis

Java HTTP Server - https://github.com/vcalbucci/java-http-server
- Built a lightweight HTTP/1.1 server from scratch in Java with full support for GET, POST, HEAD, DELETE, and OPTIONS
- Implemented request parsing, router-based dispatching, and modular handler architecture for extensibility and maintainability.
- Designed the server to support persistent keep-alive connections, gzip compression, file I/O, and full standards-compliant HTTP responses.

Effex - Earnings Report Calendar App
- Developed full-stack earnings calendar app to track stock earnings reports with 80,000+ stock records; built REST API and personalized watchlist experience for users.
- Automated data ingestion pipeline using AWS Lambda + Supabase; integrated Google Calendar API for seamless user alerts.

Video Game Player Activity Prediction Model
- Built a KNN regression model to predict player activity in video games based on age, gender, and skill level
- Achieved 81% model accuracy on 1,535 Minecraft sessions after EDA and outlier handling
- Optimized model performance through hyperparameter tuning and cross-validation
- Utilized R (tidyverse, ggplot2, dplyr, kknn) for data processing, visualization, and model training

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, R, SQL, HTML/CSS
Frameworks & Libraries: React.js, Vite, Node.js, Tensorflow, PyTorch
Tools & Platforms: Cursor, **GitHub Copilot**, Jupyter, GitHub, VSCode, **AWS (Lambda, S3, RDS)**, WSL