

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

Software Engineer Intern

- Developed a cross-platform (Linux/Windows) Go-based CLI for auditing system components and validating environment compatibility
- Automated build and distribution workflows using PowerShell to generate lightweight executables for users
- Collaborated with senior engineers to design and iterate on CLI functionality, incorporating feedback from internal testing and 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