

Victor Calbucci

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EDUCATION

University of British Columbia

B.S. Computer Science

Vancouver, BC

Expected Graduation, Dec 2026

- **Concentrations:** Machine Learning and Software Engineering
- **GPA:** 4.0, 91%/100 *Dean's List*
- **Related Coursework:** Data Structures & Algorithms, Software Design, Data Science, Object-Oriented Programming, Statistics, Logic and Discrete Mathematics

EXPERIENCE

Southend United FC.

Seattle, WA

Machine Learning Engineer Intern

Feb 2025 – present

- Developed an internal tool to process soccer match clips using computer vision, tracking player movements, game metrics, and key statistics
- Implemented convolutional neural networks (CNNs) to track players, measure distances between them, and identify open or congested spaces on the field
- Utilized OpenCV and Supervision libraries to track player trajectories and compute gameplay statistics
- Built a team predictor using K-means clustering and color histograms to classify/assign players and goalkeepers to teams based on jersey colors

PROJECTS

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
- Conducted exploratory data analysis on 1,535 gameplay sessions from a Minecraft server, visualizing trends and omitting outliers; achieved a model accuracy of 81%
- Optimized model performance through hyperparameter tuning and cross-validation
- Utilized R (tidyverse, ggplot2, dplyr, kkn) for data processing, visualization, and model training

Earnings Report Calendar App

- Built a full stack React app with backend to help users track upcoming company earnings reports
- Learned SQL to manage the database and used JavaScript, HTML, and CSS to build the app
- Managed relational databases with 80,000+ stocks and user watchlists to display a personalized front-end experience for each user using APIs
- Utilized multiple AWS services to automate and log updates to my relational databases.
- Integrated users' stock watchlist to Google Calendar via API

Personal Website

- Built a personal portfolio website ([ycalbucci.com](#)) to display projects and provide relevant information about myself
- Developed fully responsive website styling with capabilities for all screen sizes using media queries in CSS

SKILLS

Programming:

- Java
- Python
- C/C++
- SQL
- R
- JavaScript (React.js, Node.js)
- HTML/CSS

Machine Learning:

- Jupyter
- Numpy
- Tensorflow
- Matplotlib
- PyTorch
- NLP
- Computer Vision
- OpenCV

Other:

- GitHub/Source Control
- AWS
- Visual Studio Code
- APIs
- BaaS/FaaS