

NIKOLAS VAHLAS

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EDUCATION

The University of British Columbia

Bachelor of Science in Computer Science

Expected Graduation: May 2026

Vancouver, BC

Activities: nwHacks 2023, nwHacks 2024, Intramural Soccer/Basketball/Flag Football (Winner - Flag Football)

TECHNICAL WORK EXPERIENCE

Incoming Software Engineer Intern

Amazon

May 2025 – Aug 2025

On-site

Software Engineer Intern

Geotab

May 2024 – Apr 2025

Remote

- Collaborated with an Agile team to develop new features for the MyGeotab application using Scrum methodology and technologies such as Docker, .NET (C#), TypeScript, React, and PostgreSQL.
- Optimized C# API calls within the .NET framework, resulting in a 100% increase in execution speed, enhancing user experience and backend performance for over 2 million users.
- Conducted final pre-release testing on a telematics product suite, creating and documenting a testing plan that reduced testing time by 90%, allowing other developers to replicate the process efficiently.
- Integrated and assembled various React components to build cohesive, efficient, and user-friendly interfaces.

Co-Founder

Andromeda Fitness Solutions

May 2024 – Sep 2024

Remote

- Worked on an MVP to improve patient adherence using TypeScript, React, and Firebase, including features such as exercise tracking and a personalized coach.
- Selected Firebase to accelerate development, facilitating rapid implementation of registration, login, patient tracking, and workout tracking.
- Designed a tailored data schema to enhance database efficiency, enabling faster data retrieval and improved scalability for application requirements.

PROJECTS

Crypto Token Monitor & Trader | TypeScript, Node.js, Telegram API, Google Cloud Platform, Python

Dec 2024

- Built an integrated system to track "Moonshot" for newly listed crypto tokens, automatically extract their contract addresses, and instantly alert users through Telegram channels.
- Implemented a trading algorithm that runs when a contract address is retrieved, executing buy/sell orders upon listing.

BBallBrainiac | React, Flask, Python

Jan 2024

- Led the development of a fantasy basketball optimization app using Flask and React.
- Engineered a RESTful API for efficient frontend-backend communication and implemented an algorithm for optimal player pickups and drops, resulting in a 90% decrease in time users spent managing their teams.

GestureJack | JavaScript, Node.js, Express.js, MongoDB, HTML, CSS, Jest

Aug 2023

- Combined traditional Blackjack gameplay with modern gesture controls in an 8-bit design and integrated backend authentication.
- Utilized the MediaPipe API for gesture recognition, enhancing user experience with a 98% accuracy rate during testing.

FitTrack | Java, JSON, JUnit, OOP

Sep 2022

- Engineered a desktop application enabling day-to-day tracking of nutritional intake for users.
- Crafted a user-friendly interface, allowing for the addition of custom food entries and diet tracking.

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Python, C, C++, C#, PHP, HTML, CSS

Frameworks: Node.js, .NET Core, Flask, Express.js

Developer Tools: PostgreSQL, Docker, MySQL, Git, Linux, Google Cloud Platform, Chai, JUnit, GDB, Jest, XUnit

Libraries: React, Scikit-learn, Pandas, Matplotlib, NumPy

INTERESTS

Soccer, Basketball, Flag Football, Tennis, Formula 1, Weightlifting, Video Games, Reading