

Ariel Vetshchaizer

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EDUCATION

The University of British Columbia

Bachelor of Applied Science in Computer Engineering | GPA: 3.8 / 4.33

Vancouver, BC

Sep 2020 – May 2025

EXPERIENCE

Buisness Systems Analyst Intern | TD Platforms and Technology

May 2022 - Aug 2022

- Designed internal webpages used by hundreds of TD employees, improving accessibility and usability of key tools
- Enhanced the user experience of frequently visited hub pages, streamlining navigation and increasing efficiency
- Collaborated with teams to identify challenges, propose solutions, and implement improvements

PROJECTS

Remi - Multiplayer Game | React Native, Expo, TypeScript, AWS

Jul 2025 – Present

- Built a custom mobile version of Remikub with modified rules using React Native/Expo and AWS
- Developed a fully serverless multiplayer infrastructure using AWS managed services, demonstrating cloud-native development and a cost-efficient scaling approach

Capstone - Human Anatomy Teaching App | Node.js, React, JWT

Sep 2023 – Apr 2024

- Coordinated a team in producing an educational mobile application for UBC Medical students
- Led development of React-based Admin Portal, enabling visual and secure content management (flashcards, quizzes, etc.) without requiring direct database access or technical expertise
- Deployed a production-ready application to be used by an anatomy professor to manage coursework and support over 100 students

Kashoot - Quiz Game | Node.js, REST API, WebSocket, MongoDB

Sep 2023 - Dec 2023

- Collaborated in a team to develop a production-ready multiplayer trivia game that can be played from anywhere on Android devices
- Built a scalable backend server handling game logic, user authentication, and real-time gameplay between players
- Designed the system that reliably supports dozens of concurrent game sessions with smooth, low-latency performance

Gym Management System | Node.js, MS SQL, React

Jul 2023 – Aug 2023

- Designed a comprehensive database schema with entities for users, workouts, exercises, body measurements, and fitness groups
- Translated business requirements into a database design that handles complex relationships between members, workouts, and progress tracking
- Built a React interface for user-friendly database interaction, eliminating the need for manual query writing

AudioAurora | React, Node.js, MongoDB, TCP

Jan 2023 - Apr 2023

- Led a team of 4 in designing a karaoke interface that integrates a web application with an FPGA-powered Fourier Transform for real-time audio visualization
- Developed a cloud-based infrastructure that enables real-time data transmission to the hardware via TCP
- Enabled usage of the FPGA system via a modern web interface for data management and playback control

AWARDS

Capstone Faculty Award

2024

Dean's Honor List

2020, 2021, 2022, 2023

TECHNICAL SKILLS

Software: Javascript, Typescript, React/React Native, HTML/CSS, SQL, NoSQL, Python, Java, C

Hardware: Arduino, Verilog, Modelsim, FPGA

Developer Tools: Git, MongoDB, MS SQL, AWS, Azure, Figma, VS Code