

# Milad Mehri

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## EDUCATION

### University of British Columbia

*Bachelor of Science in Computer Science*

Vancouver, BC

*Sep. 2023 – Present*

- Relevant Coursework: Computation, Programs, and Programming (CPSC 110), Models of Computation (CPSC 121), Software Construction (CPSC 210), Introduction to Computer Systems (CPSC 213), Basic Algorithms and Data Structures (CPSC 221), Introduction to Data Science (DSCI 100), Applied Machine Learning (CPSC 330).
- Activities: Competitive Programming Team (ACM ICPC), Intramurals;

## EXPERIENCE

### Software Developer

*UBC Visual Cognition Lab*

Vancouver, BC

*Feb. 2025 – Present*

- Revamping the lab's website with React and Next.js to improve speed, UX, and content accessibility.
- Optimizing performance and maintainability for long-term scalability.

### Software Engineer

*Multifaceted Innovation in NeuroTechnology*

Vancouver, BC

*Jan. 2025 – Present*

- Developing the MindTap app in React Native with EEG-based interaction and iOS Switch Control for accessibility.
- Engineering an EEG calibration system that maps brain signals to user actions for neurotechnology research.
- Applying machine learning to extract real-time ON/OFF mental commands from EEG data.

### Software Engineer Fellow

*Headstarter*

Remote

*July 2024 – Sep. 2024*

- Built and deployed tools to optimize SEO and automate customer support, improving workflow efficiency.
- Developed full-stack projects with industry mentors, following MVC design principles.

## PROJECTS [\[Link\]](#)

### Bongo, Discord Bot - *Discord.js, Node.js, MongoDB* [\[Link\]](#)

- Built a multiplayer economy game with a Discord bot, enabling in-game transactions.
- Scaled the platform to 200,000+ active users, managing deployment and operations.

### ThenStep - *Next.js, Bun, OpenStreetMap, Google Maps API, Puppeteer* [\[Link\]](#)

- Developed a map application enabling natural language search for safer, scenic, and eco-friendly routes.
- Integrated OpenStreetMap and Google Maps API for dynamic and interactive mapping.
- Scraped local data with Puppeteer to enhance route variety and community-focused features.

### UBC Talks - *Typescript, Next.js, Supabase, Google, Tailwind CSS* [\[Link\]](#)

- Reddit-esque web application for student discussion about UBC courses, built with Next.js and Supabase.
- Allows users to log in, pin course channels, make posts, and upvote/downvote posts.

### SEO Snap - *Next.js, Node.js, Tailwind CSS, Web Scraping* [\[Link\]](#)

- Built and deployed a web app using web scraping to optimize search engine visibility.
- Developed feedback tools that helped 100+ users improve website performance in the first month.

### NBA Career Length Predictor - *Scikit-learn, HTML, CSS, JS* [\[Link\]](#)

- Trained a machine learning model to estimate the career lengths of NBA players based on various statistics and trends.
- Achieved high predictive accuracy ( $MSE \approx 1.38$ ) and presented results through a user-friendly website.

### Pinpoint - Category Guessing Game - *Next.js, Node.js, Tailwind CSS* [\[Link\]](#)

- Built and deployed a fast-paced category-guessing game with daily challenges.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, EJS, C, C++, Swift

**Frameworks:** React, React Native, Express.js, Next.js, Flask, Node.js, Bun, Supabase, Expo

**Developer Tools:** Git, Docker, VS Code, Android Studio, Xcode, MongoDB, PostgreSQL, Firebase, Supabase, Vercel

**Libraries & APIs:** Discord.js, Scikit-learn, Puppeteer, Google Maps, OpenStreetMap, Twilio, bcrypt, Socket.io, Pandas