

Nima Norouzi

Vancouver, BC • nimano@student.ubc.ca • +1-604-781-6761
nimanoro.github.io • github.com/Nimanoro • linkedin.com/in/nima-norouzi-

Summary

Software Engineer with experience building real-time ML-driven backend systems, evaluation pipelines, and production services used by hundreds of users.

Software Engineering Experience

Software Engineer (Co-op) - LiftIQ Oct 2025 - Present

Python, C++, Computer Vision, ML, Mobile

- Architected and deployed a real-time video analysis **system** for strength training, processing per-frame pose data and delivering sub-second feedback at 30 FPS under mobile latency constraints.
- Designed rep-detection and motion-quality scoring algorithms robust to camera angle variance, user height differences, and noisy gym environments, achieving 96% accuracy in benchmarked evaluations.
- Built an end-to-end pipeline from mobile video capture through inference and offline evaluation, enabling reproducible experiments and fast iteration on model changes.
- Developed automated benchmarking and regression tests to track model accuracy across user sessions, preventing performance degradation as features scaled.
- Structured pipeline stages with clear interfaces to isolate failures and simplify debugging under real-time constraints.

Software Engineer - Koole Jan 2025 - Apr 2025

React 19, Node.js, Express, MongoDB, Vite, Tailwind CSS

- Shipped a group-trip marketplace enabling verified trip leaders to launch paid experiences.
- Architected a role-based backend and data model enforcing booking capacity, transactional integrity, and access control.
- Built frontend flows with client-side routing and state management for user, leader, and admin roles.
- Led a 3-person team to deliver a production MVP within fixed deadlines.

Full-Stack Developer - Discover Music Mar 2024 - Nov 2024

React, Node.js, MongoDB, Spotify Web API, OpenAI (GPT & DALL-E), Render

- Integrated Spotify OAuth 2.0 and backend token persistence to securely access user listening data at scale.
- Designed backend services to aggregate and score user audio features, generating personalized playlist recommendations.
- Deployed a production Node.js backend with session management, CORS configuration, and persistent storage on Render.

- Deployed a premium mode that generates GPT-based playlist names and DALL-E cover art (auto-compressed to 256 KB and uploaded to Spotify).

Full-Stack Developer - StretchFlow

Feb 2025 - Jun 2025

React Native, Firebase, Expo IAP, TypeScript

- Published a wellness app on App Store; 400+ downloads and active users.
- Implemented streak tracking, in-app purchases, audio coaching.
- Designed intuitive UX, and usage-gated features to improve subscription rates.
- Maintained production services and shipped fixes based on real user feedback.

Education

University of British Columbia - BSc in Computer Science

Expected Graduation: Jan 2027

Awards: Outstanding International Student Award

Relevant Coursework: Data Structures & Algorithms, Advanced Machine Learning, Computer Vision, Computer Networking, Software Engineering, Relational Databases

Technical Skills

Languages: Python, TypeScript, C++, Java

Frontend: React, React Native, Tailwind CSS

Backend: Node.js, Express, MongoDB, SQL (API design, concurrency, data consistency)

ML / Systems: PyTorch, TensorFlow, Gymnasium

Infrastructure: Docker, Git, CI/CD, Render, Cloud Functions

Additional Experience & Leadership

Teaching Assistant - UBC CPSC 340 (Machine Learning)

Sep 2025 - Present

- Taught and graded assignments for 200+ students in Machine Learning.
- Led tutorials and mentored teams on optimization and modeling.

UBC Persian Club - Director of Philanthropy

Jun 2025 - Present

- Organized 15+ events for 1,000+ attendees; grew club revenue by 50%.
- Spearheaded first fundraising campaign for schools in Iran; raised \$9.2K in a month for educational access.