

William Nguyen

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EDUCATION

Simon Fraser University, Burnaby, BC

September 2022 - Expected Completion: 2026

- Bachelor of Science, Computer Science
- Awards: Chomilik Foundation (\$1,000), SFU Open Undergraduate Scholarship (\$1,000)

RELEVANT WORK EXPERIENCE

Founder & Programming Instructor

January 2025 - April 2025

CodeWithLuca; Vancouver, BC

- Launched a paid online tutoring business for kids aged 8–16, teaching Python and web development through live weekly Zoom lessons
- Designed a beginner-friendly curriculum with interactive coding challenges, projects, and quizzes on topics like HTML/CSS, JavaScript, and Python logic
- Attracted and retained 4 loyal clients over 4 months; students completed web pages and built basic Python tools like web scrapers and calculators
- Managed all operations including content creation, scheduling, progress tracking (via Notion), Facebook marketing, and onboarding via Wix

TECHNICAL PROJECTS

HealthAce

July 2024

Group Project | <https://github.com/thanhha1210/cmpt276-group-project>

- Built and deployed a full-stack Java/Spring Boot web app on Docker with PostgreSQL to manage hospital appointments
- Designed and integrated a ChatGPT 3.5 AI assistant to handle patient FAQs and streamline the booking process
- Collaborated across frontend/backend with Agile sprints and version control; deployed MVP for real use

ChalkedUp – Social Media Platform for Climbers

June 2025

Personal Project | <https://github.com/LucaCoding21/Chalked-Up>

- Designed and deployed a mobile-first social platform for climbers with 30–50 active climbers from the local community used the app during beta testing
- Built core features: real-time messaging, video posting, threaded comments, reposting, and a friend system using Firebase (Auth, Firestore, Storage)
- Developed a clean, modern UI with React and HCI principles; implemented a responsive design and live notification system
- Engineered dynamic navigation with React Router and polished the UX with custom animations and visual hierarchy

Medical Visual QA System – Trauma THOMPSON Challenge

April 2025

Group Project | https://github.com/sfu-cmpt419/2025_1_project_16

- Developed an end-to-end Visual Question Answering system on the Trauma THOMPSON dataset (380K+ frames)
- Built a custom frame-sampling pipeline using ffmpeg to extract high-salience trauma scenes for model training
- Fine-tuned ViLT and CLIP models for multi-class classification (labels), achieving a 92.6% F1 score, outperforming zero-shot baseline
- Contributed extensively to early AI prototyping and data engineering in a course-led research challenge

TECHNICAL SKILLS

- **Programming Languages:** Java | Python | C++ | Javascript | CSS | HTML
- **Frameworks & Libraries:** Spring Boot | Numpy | React | Firebase
- **Development Tools:** Git | Docker