

Jonathan Ung

Vancouver, BC

+1 (778)-798-0415 | jua10@sfu.ca | <https://www.linkedin.com/in/jonathan-ung-1193a2238/>
<https://github.com/jonathanung> | <https://gitlab.com/jonathan.keith.ung> | <https://jonathanung.ca/>

Technical Skills

- **Machine Learning:** NumPy, PyTorch, Pandas
- **Front-End:** React, Next.js, Angular, Flask, Django, Spring MVC, SASS, jQuery, Flutter, Bootstrap, Tailwind
- **Back-End:** SQL (PostgreSQL, MySQL, SQLite3), Express, MongoDB, JWT, FastAPI, Flask, Spring Boot, Bcrypt
- **Deployment:** AWS, Kubernetes, Docker, Git, CI/CD, Cloudflare, SSL, Nginx, DigitalOcean, Defang
- **Languages:** Python, TypeScript, JavaScript, C++, C#, SQL, Java, GD Script, Dart, Bash, Perl, HTML, CSS
- **Miscellaneous:** QT6, Protobuf, JavaFX, Unity, TensorFlow, Keras, Regex, Scripting, OOP, API, REST, CMAKE, ROS

Technical Work Experience

Code Sensei August 2023 - PRESENT

Code Ninjas - Richmond, BC

- Integrated technology-enhanced learning to engage children in coding fundamentals
- Developed expertise in Unity to support students' complex projects
- Deployed and managed a scalable NAS system for efficient project data storage

Software Engineering Intern

August - November 2022

MVP IT Solutions - Daytona Beach, FL, USA (Remote)

- Engineered scalable and reusable components using the Flutter framework
- Optimized API calls to improve cloud database efficiency and reduce operational costs
- Debugged and tested applications, minimizing integrity errors and enhancing reliability

Technical Extracurricular Activities

Software Team Lead, C++ Software Developer February 2024 - PRESENT

SFU Robot Soccer Club (Bandits FC) - Burnaby, BC

<https://gitlab.com/sfurs>

- Directed the design and implementation of network protocols for rapid and reliable data transmission
- Coordinated project goals across Firmware, Electronics, and Mechanics teams for alignment and progress
- Led the development of an autonomous state classifier using Hierarchical Finite State Machines (HFSMs)

Vice President, Lead Hackathon Coordinator, Executive Advisor

April 2023 - April 2024

Langara Computer Science Club - Vancouver, BC

- Secured funding and collaboration with academic departments to host Langara Hacks, the inaugural hackathon
- Managed event logistics and ensured quality through a dedicated committee oversight
- Standardized organizational processes and created efficient systems for task management

Technical Projects

ChronoCal - Web Application August 2024 - PRESENT

MongoDB, Express.js, React.js, Node.js, GPT-4o | Full Stack Website

<https://github.com/jonathanung/ChronoCal>

- Designed a dynamic calendar generator for seamless month navigation and event integration
- Implemented modular relations and sorting between events for enhanced app flexibility

Sewjo - Web Application

FABCYCLE X SFU CMPT 276, May 2024 - August 2024

PostgreSQL, Spring Boot, Next.js, OCRSpace | Full Stack Website

<https://github.com/niomedev/sewjo>

- Developed a secure fabric and pattern management platform with bcrypt and JWT authentication
- Integrated OCR technology for extracting pattern data from images, improving user efficiency

Transcribr - Discord Bot

July 2024

Discord.js, Opus, ffmpeg, GPT-Whisper | Discord Bot

<https://github.com/jonathanung/transcribr>

- Built a bot to transcribe multi-channel voice meetings into text, leveraging ffmpeg and GPT-Whisper API
- Enabled real-time multi-channel voice recording for comprehensive meeting capture

Non-Technical Work Experience

Scheduling Manager, Kitchen Supervisor and Line Cook

August 2021 - December 2022

Katsu San - Richmond, BC

- Managed staff schedules, ensuring efficient kitchen operations and handling time-off requests
- Conducted training and quality control to maintain product standards
- Collaborated directly with ownership for continuous improvement in service quality

Education

B.Sc Computing Science

January 2024 - August 2027

- Simon Fraser University - Burnaby, BC

Computer Science Transfer

September 2021 - April 2022, April 2023 - December 2024

- Langara College - Vancouver, BC

Certificates

Full Stack Web Development Certificate

May 2022 - August 2022

- Coding Dojo (Colorado Technical University) - Colorado Springs, Colorado, USA (Remote)