

Nicholas Zhang

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TECHNICAL SKILLS

Primary Languages: JavaScript/TypeScript, Python/Jupyter, C#, SQL, HTML/CSS

Secondary Languages: C++, C, MATLAB, R

Applications/Tools: Git, LaTeX, Google Cloud, Docker, Figma, Postgres, Coolify, Azure DevOps, Jira

Libraries & Frameworks: React, NextJS, Express, NodeJS, Angular, Fast-API, Jest, ASP.NET

EXPERIENCE

Project Manager and Web Developer Co-op

Jan 2025 – May 2025

Provincial Health Services Authority

Langley, BC

- Wrote 36 training aids and reviewed various SOPs while coordinating with SMEs across warehouse departments
- Developed web applications using ASP.NET and React with TypeScript for our ongoing ERP Integration project
- Utilized DevOps methodologies with Jira and Azure DevOps for efficient project tracking, version control, and continuous integration
- Wrote unit tests with Jest for web application testing. Improving code coverage and reducing post-release defects

Frontend Test Engineer Co-op

Jan 2023 – May 2023

Epic Safety Inc.

Vancouver, BC

- Developed and implemented comprehensive Jest test suites for React components, increasing code coverage by 40%
- Conducted end-to-end testing of residential security systems, validating hardware-software integration and creating automated test scenarios that improved deployment reliability

Lead Web Developer

September 2023 – Present

The Forum SFU

Burnaby, BC

- Developing a modern, responsive website using Next.js and Tailwind CSS to improve brand visibility.
- Implementing secure email signup with ASP.NET backend and PostgreSQL database for user data management
- Engineering high-quality interactive components with Aceternity UI, improving user experience metrics and content engagement
- Collaborated cross-functionally with student leadership to transform business requirements into technical specifications, prioritizing features that increased club visibility and membership

PROJECTS

Tiktok Video Generator | *Google Cloud, MoviePy, PRAW, NextJS, FastAPI*

Aug 2024 – Present

- Developed an automated "TikTok-style" video generator capable of producing batches of short story videos
- Integrated Reddit's PRAW API for web scraping, extracting relevant content from targeted subreddits
- Leveraged Google Cloud's Text-to-Speech API with assets stored via Google Cloud Storage
- Building a responsive NextJS Frontend with a FastAPI backend for public deployment

Personal Server | *Ubuntu Server LTS ISO, Coolify*

August 2024

- Set up a Lenovo TS440 with Ubuntu Server LTS, including custom storage partitioning for optimization
- Configured and secured server environment to host various web applications
- Deployed and managed applications with Coolify using Docker containers

Trading-Bot | *Python(Pandas, Numpy, Scikit-learn, Selenium)*

March 2024 – May 2024

- Utilized Selenium to web scrape top gaining and S&P 500 stocks from Yahoo Finance
- Calculated key technical indicators including exponential moving averages and support/resistance levels
- Developed models to classify S&P 500 stock movements as "Raising", "Falling", or "Stagnant"

Student Database | *NodeJS, Express, HTML/CSS*

March 2022

- Developed a full-stack web application allowing users to dynamically manage and display student information
- Implemented CRUD operations with a RESTful API using Express, enabling users to add, view, update, and delete student records
- Designed an intuitive user interface with responsive HTML/CSS for seamless data entry and visualization

EDUCATION

Simon Fraser University

B.Sc. Computer Science

Vancouver, British Columbia

September 2025 (expected)