

Nicholas Chan

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SKILLS

- Programming Languages: Python, Bash, Go, R, C++, HTML/CSS, Javascript, Powershell
- Frameworks/Libraries: React.js, Node.js, Flask, Django
- Operating Systems: Linux, Windows, MacOS
- Software: SQL, Git, AWS, Microsoft Office, Visual Studio Code, Figma

TECHNICAL EXPERIENCE

System Administrator

May 2024 - Present

BC Cancer; Genome Sciences Centre

Vancouver, BC

- Managed and created Python scripts for Active Directory Domain & LDAP Administration account creation, reducing the account management and onboarding process by 50%.
- Developed a web interface for the company's internal purchasing database, integrating database management and authentication features to improve data security and ease of access for users.
- Provided support regarding machine setups, software installations, networking issues, and administered Linux and Windows file permissions. Created and managed Kanban boards and Agile project workflows using Jira.

Website Developer

Oct 2023 - Jan 2024

AumOui

Burnaby, BC

- Contributed to the development of a Shopify ecommerce platform for a startup specializing in self-care products.
- Created custom HTML elements, such as an events page with a seamlessly integrated calendar, enriching user engagement and enhancing the platform's functionality.
- Designed the website interface for both mobile and desktop devices, contributing to a more polished and user-friendly experience.

SELECTED PROJECTS

Anomaly-Based Intrusion Detection System

R

- In a team of 3 students, trained a multivariate markov model to analyze large datasets of household electrical data to detect anomalous data frequently occurring in cyberattacks. Presented as a term project for CMPT 318 - Cybersecurity.
- Scaled dataset through standardization, then generated principal component scores for an analysis of concerned variables.
- Generate log-likelihood values with training data, and compared with testing data to determine an appropriate threshold for anomalous data.

HireHigher

React, Django, AWS

- Created an interview prep web app, generating personalized questions off of user-provided information and job title.
- Developed a Django REST API to receive and scrape given user resume and LinkedIn profile, and to provide analyses on interviewee depth, clarity, and pace using OpenAI's GPT-4o-mini model. Hosted the API on AWS Cloud.
- Winning project of LangaraHacks 2024, also presented at the Langara Fall 2024 Tech Talk.

ASLingo

Flask, Google MediaPipe, HTML, CSS, JavaScript

- Developed an American Sign Language (ASL) learning game.
- Trained an image recognition model to translate hand gestures into specific words and letters, and created custom challenges to match the gestures.
- Created a Flask web server to process user requests, manage data flow between the frontend and backend, and handle real-time interactions for the ASL learning game.

EDUCATION

Bachelor of Science (BSc.) in Computer Science

Expected Graduation: Apr 2027

Simon Fraser University

Burnaby, BC

- Relevant Coursework: Data Structures and Programming, Cybersecurity, Computer Systems