

Andrew Lai

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Skills

Languages: C++, Python, R, Java, TypeScript, HTML/CSS, MATLAB, Bash, LaTeX

Frameworks/Libraries: React, Node, Flask, Express, GSAP, NumPy, Tkinter, Tidyverse, PyMongo

Other: Git, Docker, MongoDB, MySQL, JupyterLab, Linux Shell, VS Code, Figma, Adobe CC

Experience

Front End Developer, Lead UI/UX Designer

Sep 2023 – Present

UBC DSCI

Vancouver, BC

- Tasked with redesigning and developing The Pacific Conference on Artificial Intelligence 2024 site.
- Followed a relaxed Agile-scrum schedule to ensure consistent progress
- Communicated with marketing and content teams to ensure all information was concisely presented on pages

Research Software Engineer

Jan 2023 – Apr 2023

UCW Labs, Farmer's Hive

Vancouver, BC

- Predicted irrigation levels based off of historical sensor data provided by UCW Labs and OpenWeatherMap APIs
- Designed and rigorously tested the program with the objective of delivering the service to clients using Farmer's Hive smart sensors
- Worked in a small team, utilizing GitLab for version control

Software Engineer, Graphic Designer

August 2023 – Present

SubVision Robotics

Burnaby, BC

- Worked with Python and ROS1 to help the mechanical and electronics team prepare a functional prototype ROV for 2024 MATE ROV competition
- Used Gazebo to simulate and test robot design concepts

Creative Director, Graphic Designer

Sep 2019 – Jan 2023

P6.jpg, xegativ

Vancouver, BC

- Managed and co-led a team of designers in creating visually compelling artwork for clients, resulting in sales totaling \$20,000
- Developed clear and concise communication skills through direct client interactions, while also ensuring the production of high-quality design solutions

Front End Developer

Sep 2019 – August 2020

Canadian Youth Society

Vancouver, BC

- Conceptualized, developed, and deployed static company website, resulting in over a 60% increase in site visitors
- Provided vision, strategy, and structure within team and managed digital assets

Projects

OutfitLB | Python, MongoDB, Tkinter, scikit-learn

🌐 xegativ/OutfitLB

- Produced a desktop app that stores and manages clothing, outfits, and closets
- Custom class implementation and utilization of Object-Oriented Programming principles
- Stores user data on MongoDB to allow for data access across devices

mySips | React, TypeScript, MySQL, Express, Passport.js

🌐 xegativ/mySips

- Constructed web app for storing and managing beverages with MySQL
- Utilized modular React components and hooks to create a visual and accessible user experience
- Developed backend API endpoints to retrieve and post user data, using Passport.js for authentication

Devpost Scraper | Python, Flask, spaCy, BeautifulSoup4

🌐 xegativ/Dev-Post-Scraper

- Created a web scraping application that extracts data from Devpost, a hackathon submission database website
- Utilized sentence extraction through spaCy to create an improved description retrieval system for text data
- Added multiple hackathon support and customization for users

Education

Simon Fraser University

Jan 2023 – Present

Bachelor of Engineering Science, Computer Engineering

Burnaby, BC