

Andrew Lai

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Skills

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

Relevant Frameworks/Libraries: React, Node, Flask, Express, Pandas, TensorFlow, PyTorch, sci-kit

Other: Git, Docker, AWS ECS, AWS EC2, MongoDB, MySQL, JupyterLab, Linux Shell, Figma, Adobe CC

Experience

Full Stack Developer, Lead UI/UX Designer

Sep 2023 – Present

UBC Datascience Club

Vancouver, BC

- Redesigned and developed The Pacific Conference on Artificial Intelligence 2024 site using React and Typescript
- 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 in Linux environment to help team prepare a functional prototype ROV for 2024 MATE ROV competition
- Instructed members on using Github to aid in the development and deployment process

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

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

University of British Columbia

Sep 2021 – Dec 2022

Bachelor of Science, Computer Science

Vancouver, BC

Simon Fraser University

Jan 2023 – Present

Bachelor of Engineering Science, Computer Engineering

Burnaby, BC