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
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