Andrew Lai

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Skills

Languages: C++, 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, Arduino, Electrical Diagrams

Experience

Full Stack Developer, Lead UI/UX
UBC Datascience Club
Sep 2023 – Present
Vancouver, BC
- Tasked with redesigning and developing PCA 2024 and UBC DSCI Club's website with React and Tailwind CSS
- Followed an Agile-scrum schedule to maximize work-efficiency and output within design and development team

Research Software Engineer
UCW Labs, Farmer's Hive
Jan 2023 – Apr 2023
Vancouver, BC
- Predicted irrigation levels based off of historical sensor data provided by UCW Labs and OpenWeatherMap APIs
- Designed and rigorously tested script 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, VP Design
SubVision Robotics
August 2023 – Present
Burnaby, BC
- Worked with Python and ROS1 (ROSPy) in Linux environment to help team prepare for MATE ROV 2024
- Instructed members on using Github to aid in the development and deployment process

Contract & Freelance Work
P6, xegativ
Sep 2019 – Present
Vancouver, BC
- Designed, documented, and engineered usable, web-related software for businesses, resulting in sales over $1,000
- Managed and co-led a collective of designers in creating artwork for clients, resulting in sales totaling $20,000
- Developed clear and concise communication skills through direct client interactions

Projects

OutfitLB | *Python, MongoDB, Tkinter, scikit-learn*   ⓞ xegativ/OutfitLB
- Produced a clothing managing desktop app that utilizes custom class implementation and OOP principles
- Stores user data on MongoDB to allow for data access across devices

mySips | *React, TypeScript, MySQL, Express, Passport.js*   ⓞ xegativ/mySips
- Constructed a React web app and Express backend API for storing and managing beverages with MySQL
- Utilized modular React components and hooks to create a visual and accessible user experience

Devpost Scraper | *Python, Flask, spaCy, BeautifulSoup4*   ⓞ xegativ/Dev-Post-Scraper
- Created a Flask web scraping application that extracts data from Devpost
- Utilized sentence extraction through spaCy to create an improved description retrieval system for text data

Education

University of British Columbia
Bachelor of Science, Computer Science
Sep 2021 – Dec 2022
Vancouver, BC

Simon Fraser University
Bachelor of Engineering Science, Computer Engineering
Jan 2023 – Present
Burnaby, BC