

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

Experience

Full Stack Developer, Lead UI/UX

Sep 2023 – Present

UBC Datascience Club

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

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 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

August 2023 – Present

SubVision Robotics

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

Sep 2019 – Present

P6, xegativ

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

M.I.K.E | *C++, Arduino UNO R3, DC Motor, L298N Motor Driver, DMM*

- Developed a mini elevator lift used to bring items off the floor using DC motors and gears
- Conducted research and expanded knowledge of PWM signals, data sheets, soldering techniques, and motor control

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

- Skills: Embedded Systems, Electrical Diagrams, Soldering, Lab Equipment (DMM, Oscilloscopes, etc.)