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

ConeTec   Jan 2024 – Present
Software Developer Co-op   *Vancouver, BC*
- Architectured and further developed internal data processing software for Cone Pentration Testing using React, Redux, Typescript and Electron
- Decreased loading times by **80%** on sounding overview and commit display page through relocation and caching of calculations on main process
- Implemented new components for both data analysis and to improve graph interactions

UCW Labs, Farmer's Hive   Jan 2023 – Apr 2023
Research Software Engineer Intern   *Vancouver, BC*
- Predicted irrigation levels based off of historical sensor data provided by company and weather API
- Designed and rigorously tested script with the objective of delivering the service to clients using company's smart sensors, utilizing GitLab for version control

Full Stack Developer, Lead UI/UX   Sep 2023 – May 2024
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

P6, xegativ   Sep 2019 – Aug 2022
Contract & Freelance Work   Vancouver, BC
- Co-led a collective of designers in creating artwork for **30+ clients**, resulting in sales totaling **$20,000**
- Designed, documented, and engineered usable, web-related software for clients
- Developed clear and concise communication skills through direct client interactions

Projects

mySips | *React, TypeScript, MySQL, Express, Node.js, Passport.js*   ⌨ agl320/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

OutfitLB | *Python, MongoDB, Tkinter, scikit-learn*   ⌨ agl320/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

Devpost Scraper | *Python, Flask, spaCy, BeautifulSoup4*   ⌨ agl320/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

Simon Fraser University   Jan 2023 – Present
Bachelor of Engineering Science, Computer Engineering   Burnaby, BC
- GPA: 3.51/4.0, Dean's Honour Roll (Dec 2023 – Present)
- Skills: Embedded Systems, Electrical Diagrams, Soldering, Lab Equipment (DMM, Oscilloscopes, etc.)