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Technical Skills

Programming: Python**,** pytest, SQL, C++, Java, TypeScript, JavaScript, React, Tailwind CSS, Redux, HTML & CSS
Tools: REST API, Selenium, Vite, Flask, Airtable, Sentry, PostHog, Jupyter Notebook, Azure, Figma, Salesforce

Work Experience

Intern Software Engineer / UrbanLogiq, Vancouver, BC / Jul 2024 – Aug 2024

- Resolved front-end bugs including a critical issue that disrupted workflows, restoring user access and improving application stability.
- Enhanced existing features using TypeScript and React to support client milestone discussions for contract renewal. Collaborated with designers to implement Figma designs and addressed graph library limitations.
- Streamlined user onboarding by developing new features in a Python CLI tool, enabling batch login creation and tracking customer-level insights in product analytics software.
- Wrote a Python script to extract and format vehicle traffic count data from consultant reports, ensuring compatibility with the ETL pipeline and streamlining future data processing.

Machine Learning & Data Science Projects

Mixed-input Neural Network with Naive Neural Architecture Search for Classification of Alzheimer's Disease in Brain MRI / paper link / GitHub link / 2021

- Implemented a mixed-model approach to integrate multiple inputs and conducted a naive architecture search to identify suitable model architectures for classification of Alzheimer's Disease. OASIS 1 dataset is used.
- Evaluated model performance and identified gaps compared to state-of-the-art methods.

Electricity Time Series Prediction and Clustering Project with Building Genome Dataset 2 / paper link / 2021

- Conducted a clustering-based analysis of electricity consumption using the K-means algorithm to categorize customer usage patterns by day type (weekday vs. weekend) and annual consumption trends.
- Developed an electricity consumption prediction model using the K-Nearest Neighbor (KNN) regressor to forecast six months of energy usage based on 1.5 years of historical data.
- Built a neural network model to predict next-day electricity consumption over 201 days using 3 months of past meter readings as input.

Adaptive Thermal Comfort Model / GitHub link / 2019

- Developed an adaptive temperature model to predict the optimum room temperature for occupants based on real-time occupant and environment information with logistic regression in Python. Global Thermal Comfort Database II provided by ASHRAE is used.

Software Projects

ClassConnect / Personal project / GitHub link / Sept 2024 – Present

- End-to-end developing a full-stack web application from ideation, design, implementation to testing to help students find peers who are enrolled in the same courses and sections.
- Implementing security measures, including hashing sensitive student data to ensure privacy.
- Building the front end in React and TypesScript, back end in Flask, and using Heroku Postgres as database.

MuralHunter / nwHacks Hackathon / GitHub link / Jan 2025

- Developed a web game where two players guess mural locations on a map, with an option to upload custom images for gameplay. Built the front end using React and JavaScript, integrating the Google Maps API for location-based interactions. Collaborated on the backend using MongoDB.

Education

Bachelor of Computer Science / University of British Columbia / Sept 2024 - Expected June 2026

Graduate-level courseworks / University of Victoria / Sept 2020 - April 2021

- CS 503 Data Mining
- ECE 535 Data Analysis and Pattern Recognition

Bachelor of Applied Science Environmental Engineering with Distinction / University of Waterloo / 2015 - 2020

- CIVE 497 Smart Structure Technology (computer vision / image processing)

Exchange courseworks / National University of Singapore / Aug 2019 - Dec 2021

- BPS5229 Data Science For The Built Environment
- EE4211 Data Science For The Internet Of Things

Additional Work Experiences

Solutions Manager / UrbanLogiq, Vancouver, BC / Feb 2024 – Jun 2024

- Collaborated with design, data science, and development teams to assess project feasibility.
- Aligned client requirements with internal capabilities to ensure successful project implementation.
- Conducted preliminary data research for a housing data analytics project proposal.

Technical Product Documentation Writer (Freelance) / PostHog, Remote / Jan 2024 – Mar 2024

- Completed product documentation updates, incorporating new tutorials, images, and videos for posthog.com.
- Enhanced the user experience by developing a dark mode React component using Tailwind CSS, ensuring media dynamically adjusted when switching between light and dark mode.

Product Analyst / UrbanLogiq, Vancouver, BC / Jan 2022 – Jan 2024

In this role, I carried out three distinct functions: product analytics, quality assurance and customer success.

[Product Analytics and Management]

- Managed high-stakes projects with contract values over $100,000 to address capacity gaps.
- Oversaw several large product launches under tight deadlines, coordinating software deployments, data changes in the analytics product, and overseeing customer success communication and user training.
- Created a scalable product analytics practice to understand user behaviours and customer health.
- Managed and guided a software engineer intern to implement code changes for analytics data collection, meeting both business and technical needs for standardized customer performance reports.

[Quality Assurance]

- Owned and executed all QA efforts for product features and bug fixes, focusing on UI, UX, and data integrity, using tools such as Sentry, GitLab, FullStory, and PostHog.
- Established a QA culture of early-stage collaboration with Development and Design teams, reducing implementation costs and improving product quality.
- Improved Jira workflows to provide clear insights into bug severity and frequency, helping the Customer Success team manage customer experiences throughout the contract lifecycle.

[Customer Success]

- Directed customer success operations to ensure client retention and renewal during transitional periods.
- Restructured customer database and implemented protocols for data hygiene and third-party integrations.
- Automated user creation workflows to reduce manual work using Python.
- Authored over 15 help articles and optimized chatbot workflows to enhance user self-service, and launched personalized onboarding campaigns, increasing onboarding success by 50%.