Roni Wu

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Skills_

Languages: JavaScript, TypeScript, Python, SQL, Kotlin, Java, HTML/CSS, C/C++, GraphQL

Tools/Technologies: React, Vue, Express, PostgreSQL, MySQL, Node, Redis, Android SDK, AWS, Git, Linux/Bash

Work Experience

Full Stack Developer | Rodan Energy Solutions

Mississauga, Ontario

Sept 2024 - Dec 2024

Tools: Vue, Typescript, Python, Django, BeautifulSoup, MySQL

- Developed and automated **10** web scrapers using **Python** and **BeautifulSoup**, which retrieve real-time and forecast locational pricing data from IESO reports, providing **90+** clients with up-to-date insights on Ontario's energy market
- Implemented a CRUD interface with advanced filtering functionality using **Django** and **Vue** for managing energy peak notifications from **11** regional energy providers
- Built a maintenance notice feature that allows admins to schedule platform-wide alerts that notify users in advance

Full Stack Developer | Creator Now

Los Angeles, California

Tools: React, Typescript, Express, TypeORM, PostgreSQL, Redis

Sept 2023 - Dec 2023

- Led the development of an admin dashboard app for internal resource management in **React**, implementing **12** frontend pages and full CRUD functionality for users, content, videos, and lessons, enabling admins to streamline operations
- Developed a version editing tool for projects and user badges, boosting engagement by 15% among 44k daily users
- Built **RESTful API** endpoints with **Express** and **TypeORM**, optimizing **PostgreSQL** database performance through query tuning and **Redis** caching, reducing API calls by **32%**

Product Designer | Super.com

Toronto, Ontario

Tools: Figma, Amplitude, Jira

May 2024 - Aug 2024

- Contributed 12 UI/UX enhancements to the Travel app, boosting booking conversion rates by 16% across 540K daily users
- Created design artifacts like high-fidelity wireframes and interactive prototypes in **Figma**, leveraged design system components and user data to inform designs, and clearly proposed ideas to stakeholders

Full Stack Engineer | Applied Mind

Ottawa, Ontario

Tools: Vue, Typescript, Python, GraphQL, PostgresQL, SQLAlchemy, ZeroMQ, Jest

Jan 2023 - Apr 2023

- Designed and implemented a real-time messaging system using **ZeroMQ**, **GraphQL**, and pub/sub, req/rep architectures, delivering **100+** live sensor status messages to the frontend daily
- Developed a dynamic heatmap using **d3.js** to visualize sensor detection events, enabling users to filter and customize the display using **SQLAlchemy** and **TimescaleDB** queries that aggregate time-series data
- Built a CSV export tool enabling clients to filter and download sensor detection data, reducing manual review time by 82%

Frontend Developer | Ford Motor Company

Waterloo, Ontario

Tools: React, TypeScript, Redux, HTML/CSS, Jest, MQTT, Linux

May 2022 - Aug 2022

- Developed **7** interactive and responsive widgets for the infotainment UI in the Ford Mustang Mach-E and F-150, integrating vehicle signal logic to reflect real-time data using the **Observer** pattern and **Redux**
- Migrated the Smart Hitch feature into its own **React** microservice, refactoring legacy code to improve maintainability

Full Stack Developer | Lean Payments

Waterloo, Ontario

Tools: React, Redux, Node, AWS, PostgreSQL, Serverless

May 2021 - Aug 2021

• Spearheaded the integration of **Redux** into the **React** codebase, refactoring architecture to streamline API data and user session management, reducing API calls and improving render time by over **1000 ms**

Projects

Topify | Database for Hit Songs on Spotify

May 2023

Tools: React, Python, Flask, MySQL, HTML/CSS

- Developed a web app where users can search, view, and filter Spotify top songs in various countries
- Created RESTful APIs in Flask by writing complex SQL queries and built React components to display retrieved data

Education

University of Waterloo

Waterloo, Ontario