

Roman Wu

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EDUCATION

University of Waterloo

Bachelor of Mathematics

Waterloo, ON

Sep 2020 – Dec 2023

SKILLS

Programming Languages: Python, TypeScript/JavaScript, SQL, Go

Frameworks & Tools: Node.js, PostgreSQL, Git, Redis, Docker, React.js, Django, AWS (EC2, S3, Lambda), Kubernetes,

Concepts: OOP, Data Structures, Algorithms, Multithreading, Networking

Certificates: AWS Developer Associate, Bloomberg Market Concepts

EXPERIENCES

Google

Toronto, ON

Software Developer - Open Source

Mar 2025 – Present

- Optimized Docker image build caching logic in a widely used containerization tool; reduced CI build times by ~35% on average, boosting contributor productivity across multiple active development branches.
- Refactored and extended type definitions in a major TypeScript utility package, adding stricter key constraints to prevent invalid inputs and cutting compile-time type errors in dependent projects by ~20%.
- Fixed API parsing issue in a high-traffic open-source library, ensuring correct handling of nullable fields; eliminated runtime errors and improved integration stability for 1000+ downstream apps.
- Collaborated with maintainers across multiple open-source ecosystems through async reviews and automated tests; delivered patches within SLA, improving reliability for production users worldwide.

DCT Solutions

Toronto, ON

Software Developer - ERP Development

Apr 2025 – Present

- Delivered React/TypeScript trading dashboard integrated with Java Spring Boot APIs; used WebSocket streaming to reduce refresh time from 2.5s to 1.4s, improving trader response to market shifts.
- Developed Java-based backend modules to process and aggregate external API data; implemented validation and logging to reduce data ingestion failures by 30%, improving reliability of internal dashboards used by 3 client-facing teams.
- Built modular React components with form validation and role-based access, reducing UI bug reports by 28% and enabling faster onboarding for client operations staff across multiple projects.
- Collaborated with client stakeholders to clarify evolving requirements during sprints; adjusted implementation plans and delivered 97% of features on time, ensuring SLA targets were consistently met across multiple accounts.

McKeil Marine

Burlington, ON

Business Analyst - Risk Management

Jun 2024 – Apr 2025

- Developed key modules of a JavaScript-based web data capture tool deployed on Azure, inferring fleet transportation patterns and cutting voyage planning time by 25% while improving logistics accuracy.
- Built Power BI dashboards using DAX and Power Query to track license status, fuel usage, logistics, P&L, and asset depreciation in real time; improved compliance visibility and cut reporting prep time by 50%.
- Automated risk reporting pipelines and scheduled refreshes, consolidating data from ERP, fuel logs, and asset systems; cut preparation time 50% and delivered audit-ready packs with consistent DAX calculations.
- Performed trend analysis on operations data to flag inefficiencies; optimized fuel routing and idle time, reducing annual fuel cost by 6% and improving on-time departures and compliance tracking accuracy.

Harvest Fund Management

Toronto, ON

Intern - Operations

Sep 2022 – Dec 2022

- Designed and deployed Power BI dashboards integrating transaction, NAV, and compliance datasets, enabling real-time monitoring of 20+ mutual funds and reducing manual reporting workload by 40% through automated data refresh and visualization.
- Built Python reconciliation for daily transactions, matching ledgers to statements with rules and fuzzy logic; cut weekly manual processing by 15 hours and lowered data entry error rate by 25%, enhancing audit logs.