Rick Liu

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Skills

Languages	JavaScript/TypeScript • Python • C/C++ • C# • HTML/CSS • SQL
Technologies	React/React Native • Angular • Express • ASP.NET • Docker • Git • Jenkins

Experience

Nuvation Energy — Waterloo, Canada
Staff Software Developer Intern — Aug 2024 – Dec 2024

- Built UIs for diffing and linting files using React and TypeScript to let support teams debug config files
- Expanded TimescaleDB log downloader with custom filters and query previews using React and Express

Ansys — Waterloo, Canada
Software Developer Intern — Jan 2024 – Apr 2024

- Co-developed unit testing framework in Node.js to verify deployment and properties of Azure resources
- Built telemetry library with tools and middleware to connect Express apps to Azure Application Insights

Capital One — Toronto, Canada
Associate Software Developer Intern — May 2023 – Aug 2023

- Investigated cross-platform frameworks as alternative to native mobile development and pitched findings
- Ported credit card pre-approval web app to iOS and Android using React Native as proof-of-concept

Dealer-FX — Markham, Canada
Software Developer Intern — Sep 2022 – Dec 2022

- Improved AngularJS and ASP.NET vehicle check-in web app to fetch telematic data from GM vehicles

Idea Notion — Markham, Canada
Software Developer Intern — Jan 2022 – Apr 2022

- Rewrote WordPress, Laravel and MySQL e-commerce store, obsoleting three intensive third-party plugins

Financial Services Regulatory Authority of Ontario — Toronto, Canada
IT Systems Analyst Intern — Apr 2021 – Sep 2021

- Upgraded React, ASP.NET and MSSQL file submission portal to support hosting interactive web forms
- Extended in-house YAML form language with new syntax to facilitate its adoption by three internal teams

Projects

TachyonDB – Lightweight Serverless Time Series Database — Spring 2024

- Worked on team of five to develop SQLite-like time series database in Rust as fourth-year design project

AI Art Detector – GitHub — Fall 2023

- Trained CNN on 50k images using PyTorch to classify real and AI art with 88% precision and 94% recall
- Built Angular, Django and PostgreSQL web app and deployed it using AWS, Docker, Nginx and Jenkins

Education

University of Waterloo — Waterloo, Canada
Bachelor of Software Engineering (Expected) – 3.95 GPA — Sep 2020 – Apr 2025