

# Rick Liu

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## Skills

### Languages

JavaScript/TypeScript • Python • C/C++ • C# • Java • PHP • HTML/CSS • SQL

### Technologies

React/React Native • Angular • ASP.NET • Docker • AWS • Git • Jenkins

## Experience

### Ansys

Waterloo, Canada

Software Developer Intern

Jan 2024 – Apr 2024

- Worked on Azure backend design and Bicep infrastructure as code to help standardize data services

### Capital One

Toronto, Canada

Associate Software Developer Intern

May 2023 – Aug 2023

- Led and documented investigation into cross-platform frameworks as alternative to native mobile
- Ported credit card pre-approval web app to iOS and Android using React Native as proof-of-concept
- Presented findings in 45-minute meeting to product stakeholders and two directors of software

### Dealer-FX

Markham, Canada

Software Developer Intern

Sep 2022 – Dec 2022

- Enhanced AngularJS and ASP.NET vehicle check-in web app to display telematic data for GM vehicles
- Refactored Angular appointment scheduler nearing release to reduce tech debt and code duplication
- Wrote unit tests using Jasmine to help legacy code meet new test coverage requirements

### Idea Notion

Markham, Canada

Software Developer Intern

Jan 2022 – Apr 2022

- Rewrote WordPress, Laravel and MySQL e-commerce store to obsolete three third-party plugins
- Migrated 70k images to WEBP to reduce file sizes by 20% and identified further CSS optimizations

### 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
- Expanded in-house form language with new components to help three internal teams adopt it

## Projects

### 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 RESTful Django and PostgreSQL backend and deployed it using Nginx, Docker and EC2 + ECR + RDS
- Created single-page Angular frontend and deployed it using Jenkins CI/CD pipeline and S3 + CloudFront

## Education

### University of Waterloo

Waterloo, Canada

Bachelor of Software Engineering (Expected)

Sep 2020 – Apr 2025

- 3.95 Cumulative GPA • 91% Cumulative Average