




# Rick Liu

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## Skills

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Languages	C#, JavaScript/TypeScript, Python, C/C++, HTML/CSS, SQL, Java, PHP
Technologies	ASP.NET Core, React, Angular, Node.js, Django, TensorFlow, Laravel, Git

## Experience

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<b>Dealer-FX</b>	Markham, Ontario
<i>Software Developer</i>	<i>Sep 2022 – Dec 2022</i>

- Polished an **Angular** appointment scheduling web app nearing release in an **Agile Scrum** environment
- Integrated an **AngularJS** and **ASP.NET Core** check-in web app with GM's API to fetch vehicle health
- Wrote unit tests using **Jasmine** and **Karma** to improve the code coverage of existing products

<b>Idea Notion Development Inc</b>	Markham, Ontario
<i>Software Developer</i>	<i>Jan 2022 – Apr 2022</i>

- Rebuilt a **WordPress**, **Laravel** and **MySQL** e-commerce store, obsoleting **three** third-party plugins
- Optimized page layouts and implemented lazy loading to improve mobile page speeds by **25%**
- Migrated **70k** images to the WEBP format using **Node.js** scripts, cutting file sizes site-wide by **20%**

<b>Financial Services Regulatory Authority of Ontario</b>	North York, Ontario
<i>Systems Analyst</i>	<i>Apr 2021 – Sep 2021</i>

- Upgraded a file submission portal to support web forms using **React**, **TypeScript**, **ASP.NET Core** and **MSSQL**, allowing **three teams** to migrate from fillable PDF files and reducing manual data validation
- Expanded an in-house form specification language with new controls to facilitate the migration
- Implemented an admin dashboard with validation/workflow tools to decrease internal overhead

## Projects

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<b>AI Art Detector</b>	Angular, Django, TensorFlow
<i>Website that Classifies Real and AI-Generated Art</i>	<i>Dec 2022 – Jan 2023</i>

- Trained a CNN on 20k images using **TensorFlow** to classify real and AI-generated art with **84%** accuracy
- Developed an **Angular** and **Django** web app that accepts user uploads and returns predictions

## Education

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<b>University of Waterloo</b>	Waterloo, Ontario
<i>Bachelor of Software Engineering</i>	<i>Sep 2020 – Apr 2025</i>