

# Jessica Yin

+1 647-242-9188 | [jessicayin66@gmail.com](mailto:jessicayin66@gmail.com) | [linkedin.com/in/jessicayin66](https://www.linkedin.com/in/jessicayin66) | [github.com/jessicayin66](https://github.com/jessicayin66)

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## TECHNICAL SKILLS

**Programming Languages:** C++, TypeScript, Python, Java, C#, JavaScript, C, HTML/CSS, Bash, XML

**Frameworks and Tools:** AWS, MySQL, MongoDB, Git, Linux, Node.js, React.js, ExpressJS, Git, Jenkins, jQuery, .NET

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## WORK EXPERIENCE

### Texas Instruments Inc

Toronto, Ontario

Software Engineering Intern

09/2025 – Present

- Developing cloud-based tools for Code Composer Studio, TI's IDE for microcontrollers and processors, using TypeScript, Python, and React

### Amazon

Vancouver, British Columbia

Front End Engineer Intern

05/2025 – 08/2025

- Designed and built an *automated log analysis system* to production for AWS S3 Console on-call engineers, cutting workflow time from hours to 2–5 minutes
- Deployed event-driven pipelines with AWS CDK, integrating with internal APIs and several AWS services, while strengthening expertise in TypeScript, distributed systems, and large-scale automation

### Ansys Inc.

Canonsburg, Pennsylvania

Software Developer Intern

09/2024 – 12/2024

- Built a Typescript interface to integrate FlexNet Operations SOAP-based Web Services into Ansys' Licensing Elastic middleware
- Led the development of RESTful API endpoints using Express.js for a centralized authorization API supporting Ansys's licensing infrastructure

### Ford Motor Company of Canada Limited

Waterloo, Ontario

Android HMI Software Developer Intern

01/2024 – 04/2024

- Owned end-to-end implementation of 10+ custom UI components for Ford's SYNC Infotainment system using Java, Kotlin, Jetpack Compose, and XML
- Integrated Android Car API and RESTful APIs, reducing app load time by 5 seconds in the embedded device via optimized data processing

### QBuild Software

Markham, Ontario

Software Developer Intern

05/2023 – 08/2023

- Optimized CADLink performance, reducing data load times by 60%, and implemented customer-requested features across multiple products using C#, ASP.NET, and JavaScript with jQuery

Application Developer Intern

09/2022 – 12/2022

- Enhanced CRM system efficiency through full-stack development in C#, SQL, JavaScript, HTML/CSS, and Telerik/Kendo UI, delivering enhancements and bug fixes that reduced operational issues by 60%
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## PROJECTS

### NewsLens

- Built a full-stack news aggregation platform with React, FastAPI, and Python that performs AI-driven bias analysis and generates concise TL;DRs of trending topics, enabling more efficient news consumption
  - Implemented an NLP pipeline using Transformers, PyTorch, and scikit-learn for political bias classification, extractive summarization, and confidence scoring, presenting a bias-aware dashboard to visualize news diversity
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## EDUCATION

**University of Waterloo** | Bachelor of Computer Science | GPA: 3.7/4.0

09/2021 – 05/2026

**Relevant Courses:** Applied Machine Learning, Algorithms, Data Structures, Database Management, Operating Systems