

# Jason Tang

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## Education

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### University of Waterloo

*Bachelors of Computer Science, 3.9 GPA*

*2021-2026 (expected)*

- Coursework: Algorithms, Data Structures, OOP, Operating Systems, Compilers, Machine Learning, AI

## Technical Skills

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**Languages:** Python, C++, Typescript, JavaScript, C, Kotlin, Java, SQL, HTML, CSS, Bash, Assembly, Groovy

**Technologies:** Git, FastAPI, MongoDB, AWS, GCP, Jenkins, PostgreSQL, React.js, React Native, Next.js, Node.js, Express.js, Flask, Linux, PyTorch, TensorFlow

## Experience

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### Meta

Sep 2025 - Dec 2025

*Software Engineer Intern*

Seattle, WA

- Shipped **3 features** for Messenger for **Android** using **Kotlin, Java, and PHP**, for over **one billion** monthly users
- Built a message-based **calendar integration** using regex-based entity detection and Android Intents, driving a **14% increase** in contextual action clicks, resulting in an estimated **30M** more clicks per month
- Implemented **default word effects** triggering real-time chat animations, increasing message engagement
- Developed a **custom image editor** for meme creation and captioning using Android Bitmaps, Canvas, and text rendering, reducing content creation friction and increasing media sends

### Loblaw Digital

Jan 2025 - Apr 2025

*Software Developer Intern*

Toronto, ON

- Developed a grocery store aisle optimization application using **Typescript, Next.js, linear regression, and linear optimization**, projected to increase revenue by **5%** per grocery store and generate **\$87 million** annually
- Built an **ETL** data pipeline for product sorting and ingredient parsing with **Google Cloud Platform, Python, BigQuery, Vertex AI** and **prompt engineering**, increasing product coverage by **30%**
- Extracted planogram metadata with **SQL, Python** and **Airflow DAG**, improving efficiency for new store plans

### Lynx Software Technologies

May 2024 - Aug 2024

*Software Developer Intern*

Waterloo, ON

- Developed **Jenkins CI/CD pipelines** with **Groovy** for graphics driver tests, improving testing efficiency by **90%**
- Built a **Python** application to migrate Salesforce data to Jira, expediting the process from **3 months** to **3 weeks**
- Created a **Python** test verification tool integrated with Codebeamer, improving test verification efficiency by **70%**
- Engineered a video testing framework for **Vulkan Graphics** applications, capable of testing multiple video outputs and apps using the VMAF comparison algorithm with **95%** accuracy

### Wind River

Sep 2023 - Dec 2023

*Software Developer Intern*

Kanata, ON

- Automated Wind River Studio credentials updates with **Python**, reducing **3 hours** of manual inputs to **15 min**
- Enhanced Wind River's **CES 2024** presentation with a **Flask web server** and **Bash** scripts, which allowed the presenter to trigger remote machine actions during the showcase
- Built a **CLI tool** with **Textual in Python**, to organize and execute **PromQL queries**, streamlining data analysis

### Trend Micro

Jan 2023 - Apr 2023

*Software Developer Intern*

Ottawa, ON

- Spearheaded the development of a **full-stack app** providing Jira and GitHub metrics used by **100+** employees
- Optimized data processing of 1000s of Jira cases and GitHub PRs, resulting in analysis time reduction of **40%**
- Used **Python** and **Flask** to create a **REST API** to interact with the **React.js frontend** built with **Material UI**
- Deployed the application and **PostgreSQL database** to **AWS EC2** and **RDS** instances

## Personal Projects

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### Pawndr - Hack Western Winner | React.js, FastAPI, MongoDB, Infobip, OpenAI - [Link](#)

- **AWARDS:** Finalist, Best Hack to Help Improve Mental Well-being, Best use of GitHub, Organizer's Choice
- Built a full-stack SMS journaling app with MongoDB, FastAPI, React, OpenAI API and Infobip
- Deployed the application on **Google Cloud VM** with a **GitHub Actions CI/CD pipeline**