

JEFFERY ZHAN

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EDUCATION

University of Toronto

Toronto, ON

Bachelor of Science in Computer Science (Co-op)

Expected: April 2025

- **Courses:** Data Structures & Algorithms, Software Design, Computer Organization, Operating Systems, Systems Programming, Software Engineering
- **Awards/Activities:** UofT Scholar (**Top 5%**), Art Studio, Gym & Fitness Club, Innis College

EXPERIENCE

Full-stack Developer Co-op

May 2023 – Dec 2023

Temerity Analytics Inc.

Toronto, ON

- Built API integrations to platforms such as Google Analytics 3 and 4, TikTok Business, and Pinterest Business with **Django** and **PostgreSQL**, enabling clients to view and store up to **2 years** of historical data.
- Improved API response times by **45%** by leveraging query indexing, eager loading, and query profiling in **Django**.
- Revamped the main dashboard end-to-end using **Angular** and **Django** to provide **1.75x** more utility through aggregating and visualizing key marketing metrics, catering to industry needs and client feedback.
- Shortened onboarding duration by **8+ hours** by centralizing and updating **60 pages** of documentation on **Confluence**, as well as standardizing effective documentation practices on **Jira** and **GitHub**.

Application Developer Intern

May 2022 – Aug 2022

SR Research Ltd.

Oakville, ON

- Streamlined company's operations efficiency by **50%** and eliminated **~3** error-prone areas in the production pipeline by building a specialized full-stack IMS as the sole developer.
- Created a dashboard with **React** to manage inventory, generate purchase orders, and schedule restocking.
- Migrated over **150** product & material entries into a **Django** and **MySQL** backend and designed flexible model schemas to accommodate business specifications and product variations.
- Developed an **R** program to quantify the curvature of eye movement paths using mathematical algorithms.

PROJECTS

UofT Smart Timetable Generator | *Java, JUnit*

- Created a timetable generator that returns optimized, conflict-free schedules for a student's desired courses.
- Co-led a team of 8 developers, adhering to SOLID design principles with test-driven development in **Java**.
- Increased testing code coverage to **100%** using **JUnit** and utilized SonarLint extensively to maintain code quality.
- Engineered tag & filtering systems for more effective timetable searching, refining timetable options by **75%**.

Homes for Heroes (UofT Blueprint) | *React, JavaScript, Express.js*

- Centralized client management by building a full-stack app comprising of CRM, management, and survey tools.
- Constructed key UI components including login/signup, profile, and navigation, using **React** and **Material-UI**.
- Collaborated closely in a team of 8 within an **Agile** environment to ensure timely delivery of milestones.

Toxicity Measurer (Hack the North) | *Next.js, JavaScript, Express.js, Cohere API, Vercel*

- Developed a full-stack application that conducts sentiment analysis to detect toxicity levels in text.
- Built a minimal and accessible UI/UX with **Next.js** and the **Material-UI** library.
- Integrated the **Cohere API** for NLP text classification in **Express.js**.
- Achieved deployment using **Vercel** and **Heroku** for the frontend and backend respectively.

TECHNICAL SKILLS

Languages: Python, C, TypeScript/JavaScript, Bash, Java, SQL, HTML/CSS

Frameworks/Libraries: Angular, React, Next.js, Django, Express.js, Node.js, Bootstrap, TailwindCSS

Tools & Utilities: PostgreSQL, Git, Docker, Postman, Agile, CI/CD, Unix, Linux, Heroku, Jira, Confluence