

Jeffery Zhan

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EDUCATION

University of Toronto

Sep 2021 – May 2025

Bachelor of Science in Computer Science (Co-op)

Toronto, ON

- University of Toronto Scholar's Program (**Top 10%**)
- **Courses:** Data Structures & Algorithms, Software Design, Operating Systems, Systems Programming

TECHNICAL SKILLS

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

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

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

EXPERIENCE

Full-stack Developer Co-op

May 2023 – Dec 2023

Temerity Analytics Inc.

Toronto, ON

- Empowered clients with **2x** more analytics data by building end-to-end API integrations to retrieve/store/visualize data from third-party APIs, TikTok, Pinterest, and Google, leveraging **Angular**, **Django**, and **PostgreSQL**.
- Delivered **60%** more utility to the central dashboard by analyzing market needs and client feedback, then proposing, planning, and orchestrating a revamp of the page, using **Figma**, **Angular**, and **Django**.
- Enhanced developer productivity and reduced avg. onboarding time by **8 hours** by centralizing and updating **50+** pages of documentation and standardizing best practices with **Confluence**, **Jira**, and **GitHub**.

Application Developer Intern

May 2022 – Aug 2022

SR Research Ltd.

Oakville, ON

- Streamlined company's operations efficiency by **40%** and eliminated **~3** error-prone areas in the production pipeline by building a specialized full-stack IMS as the sole developer.
- Implemented a dashboard to manage product/materials inventory, auto-generate purchase order documents, and schedule inventory restocking using **React** and **Material-UI**.
- Built the backend and SQL database to store complex product-material relations and client info with **Django**.
- Facilitated eye-tracking research by producing scripts to quantify the curvature of eye movement path in **R**.

PROJECTS

UofT Smart Timetable Generator | *Java, JUnit*

- Developed 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.
- Refined generated timetable pools by **75%+** upon engineering the tag and filtering systems that allow for more effective and specialized timetable searching.

Homes for Heroes (UofT Blueprint) | *React, Material-UI, 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.

civility - Hack the North | *Next.js, JavaScript, Express.js, co:here API, Vercel*

- Created a full-stack application that conducts sentiment analysis to detect toxicity levels in text using NLP.
- Built a minimal and accessible UI/UX with **Next.js** and the **Material-UI** library.
- Integrated the co:here API and models custom-trained to **98% accuracy** into the backend using **Express.js**.
- Fully deployed the application using **Vercel** and **Heroku** for the frontend and backend, respectively.