

# Yanzhen Chen

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## EDUCATION

### University of Toronto

Toronto, ON

HBSc. Mathematics Major and Statistics Major, Computer Science Minor

September 2023 - May 2027

**Relevant Coursework:** Software Tools and Systems Programming, Software Design, Theory of Computation, Intro to Computer Science, Intro to Statistical Reasoning and Data Science

## TECHNICAL SKILLS

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

**Web & Mobile Frameworks:** Next.js, Node.js, Express, Expo, React Native, Tailwind

**Libraries & Packages:** React.js, Pandas, NumPy, Matplotlib, PyTorch, Scikit-learn, Java Swing

**Developer Tools:** MongoDB, Firebase, Google Colab, Jupyter, SAS Studio, Markdown

## EXPERIENCE

### Educational Technology & UX Developer

May 2025 – Present

University of Toronto, Faculty of Applied Science, Engineering Career Centre

Toronto, ON

- Appointed to a hybrid Educational Technology and UX Assistant role to develop skills in digital learning platforms, UX improvement, and data-driven content design.

## PROJECTS

### Toronto Guessing Game | Next.js, TypeScript, Tailwind, Firebase, Google Maps Api | [Link](#)

April 2025

- Developed a fully responsive web game using **Next.js** and **Google Street View**, allowing players to guess locations within downtown Toronto.
- Implemented randomized, validated Street View coordinates using Firestore caching and the Google Maps API, optimizing API usage and performance.
- Engineered a scoring algorithm based on geographic distance and created intuitive UI/UX components for real-time game feedback and results tracking.

### Computer Science Student Union Website | Next.js, Typescript, Tailwind | [Link](#)

April 2025

- Independently rebuilt the CSSU website and resolved long-standing Netlify deployment issues, enabling updates after over a year of downtime.
- Improved image loading speed by **40%** and modularized components to simplify future extensions such as the events list and about page.

### Gyroscopic Phone Authenticator | Next.js, React Native, Expo, Tailwind, Firebase | [Link](#)

January 2025

- Pioneered a cross-platform authentication flow using a gyroscope-based phone tilt mechanism.
- Bridged a **Next.js** web interface with a **React Native** mobile app using real-time data transmission via Firebase.
- Enhanced security and user experience through intuitive device interactions and dynamic visual cues with **Tailwind**.

### Movie Review Platform | Java, JavaSwing | [Link](#)

November 2024 - December 2024

- Implemented a scalable movie review system for **50+** user accounts with three of my peers, enabling seamless review creation and retrieval through **MongoDB** storage.
- Enhanced user experience by integrating The Movie Database API for title and poster retrieval.
- Streamlined backend operations, improving our original data access speed by **20%** through efficient Java and API integration.

## LEADERSHIP EXPERIENCE

### Vice President of External Relations

May 2024 – Present

Computer Science Student Union

Toronto, ON

- Secured **\$9,000** in sponsorships by establishing and collaborations with Google, Dayforce, Manulife and SOTI.
- Enhanced professional development opportunities and increased union event attendance by **30%** through organizing an information session with Manulife and a resume review panel with Dayforce, each attended by over **50** students.
- Successfully organized a career fair featuring **four** companies with **300** student attendees, facilitating valuable networking and recruitment opportunities.