

# An Tran

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## TECHNICAL SKILLS

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**Languages:** C, C++, C#, Python, Golang, Java, HTML, CSS, JavaScript, Typescript, SQL, Racket  
**Technologies:** React, React Native, Angular, Next.js, Redux, Express.js, Node.js, Tailwind CSS, Flask, NumPy, SciPy  
**Tools:** Git, Bash, Linux, Docker, Postman, Figma, PostgreSQL, MongoDB, Supabase, NeonDB, AWS, GCP, Vercel

## EXPERIENCE

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### Waterloo Data Science Club

Sep 2024 - Present

*Software Developer*

*Waterloo, ON*

- Developed reusable responsive frontend for 5+ event tools using **Next.js**, **TypeScript**, and **Tailwind CSS**.
- Built a full-stack AI-powered networking tool for 400+ members, automating survey analysis and generated personalized 1:1 pairing, using **Python**, **OpenAI API**, **Groq LLM**, and **Supabase**.
- Implemented a scalable QR-based check-in system using **Node.js** and **MongoDB**, processing 2000+ entries and improved attendee throughput by 3x.

### TEDxUWaterloo

Mar 2025 - Present

*Software Engineer*

*Waterloo, ON*

- Developed modular, animated UI with **Next.js**, **TypeScript**, **Tailwind CSS** and **Framer Motion**; streamlined deployment with Git-based peer reviews and GitHub Actions CI/CD.
- Implemented a scalable event management platform using with **PostgreSQL**, **OAuth** login, **Stripe-powered** ticketing, and seamless QR code access for 600+ attendees.

### Waterloo Computer Science Club

Sep 2024 - Jan 2025

*Technical Organizer*

*Waterloo, ON*

- Created competitive programming, cryptography, and data structure challenges for 40+ participants competition.
- Led technical setup for a typing contest with 700 members, integrating real-time performance tracking and ensuring seamless event flow through automated tools.

### Alpha Coding

Sep 2023 - Jan 2024

*Curriculum Developer & Instructor*

*Toronto, ON*

- Mentored students in debugging, algorithm design, and clean code, boosting engagement by 22%.
- Developed **Python** and **Java** curriculum for 4+ skill levels, integrating hands-on projects with **APIs**, basic **AI concepts**, and algorithm walkthroughs to support learners from beginner to advanced.

## PROJECTS

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### 🔗 Jane Street Estimathon Portal | *HTML, CSS, JavaScript, Google Apps Script*

- Developed a responsive Estimathon competition UI with **HTML**, **CSS**, **JavaScript**, and **Figma**.
- Implemented Google Apps Script backend with AJAX-based submission handling, and real-time leaderboard for 400+ users, doubling scoring efficiency over previous terms manual system.

### 🔗 UW Love Flow | *Flask, HTML, CSS, JavaScript, PostgreSQL, REST APIs*

- Built a full-stack matchmaking website with **Flask**, **PostgreSQL**, and **REST APIs**.
- Designed a pairing algorithm using MBTI classification and the Hungarian method via **NumPy**, **SciPy**, to optimize 100+ dynamic pairings.

### 🔗 InSync | *React, Python, Spotify Developer API*

- Built an interactive **React** web app that visualizes real-time music playback from **Spotify Developer API**.
- Created dynamic, chromesthesia-inspired animations using **Python-based** audio analysis and data processing.

## EDUCATION

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### University of Waterloo

*Honours Bachelor of Computer Science, Co-op*

Waterloo, ON

Sep 2024 - May 2029