UYNH AN TRAN

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TECHNICAL SKILLS

Languages: Python, JavaScript, Typescript, HTML, CSS, Java, C/C++, SQL

Libraries/Frameworks: Flask, React, Next.is, Tailwind CSS, Framer Motion, NumPy, SciPy, Google Apps Script

Development Tools: Git, Bash, Linux, Google Cloud, PostgreSQL, SQLite, MongoDB, GitHub CI/CD, Linux, Vercel, Render

EXPERIENCE

TEDxUW | React, Next. is, Tailwind CSS, Supabase Auth, PostgreSQL, Oracle Software Engineer

Mar 2025 - Present

Waterloo, ON

- Building a scalable event management platform using Next.js and Supabase to support 600+ attendees with secure OAuth authentication, Stripe-powered ticketing, and seamless QR code access.
- Developed modular, animated React components with Framer Motion, standardizing frontend designs and behaviors; increased team productivity by streamlining deployment with CI/CD pipelines and Git-based peer reviews.

UW Data Science Club | *Node.js*, *MongoDB*, *Python*, *SQL*

Sep 2024 - Present

Lead Software Developer

Waterloo, ON

- Developed a peer pairing engine using Python and Groq LLM to extract structured insights from survey data and auto-generate optimized 1:1 pairing for 140+ networking event participants
- Built a scalable QR-based check-in system using Node.js and MongoDB, processing 2000+ entries with real-time analytics; eliminated a key process bottleneck and improved attendee throughput by 3x.
- Designed a 3-tiered SQL challenge set for 170+ participants at Canada's largest student-run datathon, integrating progressively complex queries and automated grading.

UW Computer Science Club

Sep 2024 - Jan 2025

Technical Organizer

Waterloo, ON

- Created competitive programming challenges on cryptography, dynamic programming, and data structure manipulation for over **40 participants** in termly coding competitions.
- Led the technical setup and execution of a typing contest for 700 members, integrating real-time performance tracking and ensuring seamless event flow through automated tools.

Alpha Coding | Java, Python, Pygame, API Integration

Sep 2023 - Jan 2024

Curriculum Developer & Instructor

Toronto, ON

- Designed beginner-to-intermediate Python and Java curricula (API integration, Pygame games, OOP projects). fostering hands-on learning and curriculum scalability across student cohorts.
- Mentored students in debugging, algorithm design, and clean code practices across individual and group sessions, raising student engagement by 22% based on attendance metrics.

PROJECTS

☑ Jane Street Estimathon Portal | HTML, CSS, JavaScript, Google Apps Script

Mar 2025

- Built a responsive Estimathon game portal with AJAX-driven UI and real-time leaderboard updates, enabling seamless form interactions and live scoring for 400+ users via Google Apps Script backend.
- **W** Love Flow | Flask, HTML, CSS, JavaScript, PostgreSQL, REST APIs

Feb 2025

- Developed a full-stack matchmaking app using Flask, PostgreSQL, and RESTful APIs; automated deployment via CI/CD pipelines and optimized UI for responsiveness across devices.
- Designed a data-driven matchmaking algorithm utilizing MBTI classifications and the Hungarian method (via NumPy, SciPy) to optimize 100+ dynamic pairings.

☐ InSync | React, Python, Spotify Developer API

Jan 2025

• Developed an interactive music visualization web app using Spotify Developer API, dynamically rendering real-time playback data into animations influenced by the chromesthesia condition with responsive React frontend.

EDUCATION

University of Waterloo Waterloo, ON Sep 2024 - May 2028