Eddie Chen

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EDUCATION

University of Toronto St. George <div align="right">Sep. 2023 – May 2027</div>

B.Sc in Mathematics, Minor in Computer Science (Co-op)
- Relevant Coursework: Mathematical Expression and Reasoning, Software Design, Data Structures and Analysis, Statistics and Data Analysis I & II.

EXPERIENCE

Arcadis <div align="right">Apr. 2025 – Aug. 2025</div>

Mobile Developer Intern <div align="right">*Markham, ON*</div>
- Rewrote route sorting in Java using the Android SDK and unit tests to match web agency and mode-priority logic for Sound Transit's OpenTripPlanner
- Increased first-itinerary selection by 24% and reduced itinerary switching by 31% powering customer workflows for 42M+ users, from design through production rollout
- Led a TalkBack/AODA sweep using XML semantics, content descriptions, and Material components; resolved 100% of critical issues, cut mis-announcements by 63%, and reduced time-to-complete flows by 28% for screen-reader users.
- Rebuilt Map Details overlays with the Mapbox SDK into non-blocking & dismissible patterns; lowered taps to key actions by 34%, reduced overlay-related defects by 77%, and raised crash-free sessions to 99.3%.

NVision <div align="right">Dec. 2022 – Jun. 2023</div>

Software Developer Intern <div align="right">*Markham, ON*</div>
- Worked with a team of 5+ developers to optimize the website by addressing performance bottlenecks, reducing load times by 20% and enhancing user experience.
- Designed responsive web pages using HTML, CSS, and JavaScript to ensure compatibility across 100+ devices and browsers, boosting accessibility and engagement.
- Participated in agile sprints and code reviews, contributing technical insights that streamlined project timelines and improved code quality.

PROJECTS

Summa | *React, Node, Google Cloud, Gemini* <div align="right">Feb. 2025 – Apr. 2025</div>
- Winner of the GenAI Genesis Hackathon, Canada's largest AI hackathon and recipient of PwC's Best Financial AI Hack Award.
- Developed an intelligent matchmaking tool connecting startup founders with investors using data-driven insights.
- Implemented a full-stack solution with a React/TailwindCSS frontend and a Node backend that leverages tag-based scoring and NLP for semantic matching.
- Integrated Gemini to generate concise investor summaries and a chatbot for real-time founder-investor communication.

AIChat | *Java, Swing, MongoDB, RESTful API, OpenAI API* <div align="right">Nov. 2024 – Jan. 2025</div>
- Designed and implemented a RESTful API for user authentication, messaging, and AI-generated responses.
- Developed a JSON-based message exchange system supporting over 2,000 stored messages in MongoDB.
- Engineered AI-powered, context-aware response generation, increasing user engagement by 30%.
- Optimized API endpoints for friend management and conversation previews, reducing login issues by 20%.

Disaster Relief Map | *Next.js, Leaflet, Firebase* <div align="right">Sep. 2024 – Oct. 2024</div>
- Built an interactive disaster relief map integrating real-time JSON-based geolocation data for shelters, hospitals, and food banks.
- Parsed and stored over 8,000 locations from CSV files into Firebase using JSON-based storage.
- Developed RESTful API endpoints for querying real-time disaster response data and user-generated reports.
- Reduced API call load times by 25% through optimized queries and efficient component structures.

TECHNICAL SKILLS

Languages: Python, Java, R, JavaScript, TypeScript, HTML5, CSS, SQL
Frameworks & Libraries: ReactJS, NextJS, Pandas, Numpy, Matplotlib, Spring Boot, Flask
Tools: Git, Bash, Docker, Android Studio, MySQL Workbench, MongoDB, AWS, Firebase, PowerBI, Jira