

Mark Chen

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EDUCATION

University of Ottawa

B.Sc in Computer Science, French Immersion, 9.0 CGPA

Ottawa, ON

Expected 2027

EXPERIENCE

Software Developer (Co-op)

June 2025 – August 2025

SchoolFinder Group

Toronto, ON

- Developed an AI-powered persona generation and marketing advice feature, integrating Azure and OpenAI REST APIs with React to analyze marketing data and provide actionable insights for student recruitment.
- Implemented RAG AI agents using Microsoft Azure AI Studio (AI Search, Blob Storage) and connected them to ezRecruit CRM.
- Created AI reporting tools by retrieving and displaying data using existing .NET APIs and existing databases.

Information Technology Intern

June 2022 – June 2023

Ontario Science Centre

Toronto, ON

- Managed admission and sales systems, maintaining accuracy and efficiency in point-of-sale operations
- Delivered detailed presentations and technical demonstrations, explaining the functionality and mechanics behind advanced technology, such as the IMAX Theatre
- Implemented data pipelines for real-time event processing in high-traffic environments.

TECHNICAL SKILLS

Languages: Java, Python, SQL (PostgreSQL, MySQL, Oracle, SQL Server), JavaScript, Dart, HTML, CSS, R, .NET

Frameworks: Flutter, React, React Native, Node.js, Flask, Spring, Material-UI, Next.js, Solidity

Developer Tools: Git, Docker, Firebase, Solace, Kafka, Google Cloud Platform, VS Code, IntelliJ, Eclipse, Figma, CopilotKit, Tomcat

Libraries: pandas, NumPy, Matplotlib, TensorFlow, PyTorch, Redux, BeautifulSoup, OpenAI, Gemini, Claude

Certifications: DELF B2 French Proficiency, Standard First Aid with CPR-C, WHMIS

PROJECTS

Focusify (uOttHack 7 WINNER) | Starknet, Cairo, Ethereum, Next.js, React, Tailwind CSS

- Led frontend development and smart contract integration for an app designed to facilitate event-based focus groups, educational sessions, and competitive environments using the Starknet blockchain.
- Engineered seamless interactions between smart contracts to enable secure and transparent participation.
- Won **\$1000** in the Starknet Challenge (2025) at uOttHack, recognizing innovation in leveraging Layer 2 blockchain technology for productivity and education use cases.

AirMnM | PostgreSQL, Supabase, React, Vite.js, Tailwind CSS

- Implemented secure authentication and API integration using Supabase, enabling role-based access for staff and customers across multiple hotel locations.
- Created archive automation and conflict prevention logic using PostgreSQL triggers, reducing booking errors by **95%**.
- Optimized frontend development speed by integrating Vite and TypeScript, reducing build times by **40%** compared to traditional bundlers.

Ciena Challenge - 2024 Hack the Hill Winner | Java, Python, Docker, React, Next.js

- Developed a decentralized peer-to-peer (P2P) file sharing application by distributing file chunks across nodes.
- Utilized Spring Boot for backend services, SSH tunnels for secure server communication.
- Awarded **\$500** for the P2P file chunking challenge.