

Omid Hemmati

416-906-1179 | omid.hemmati@mail.utoronto.ca | [linkedin.com/in/omidhemmati](https://www.linkedin.com/in/omidhemmati) | github.com/hemmatio | omidhemmati.com

EDUCATION

University of Toronto

Toronto, ON

Bachelor of Science in Computer Science (ASIP Co-op Program), 3.81/4.00 GPA

Sep 2023 – May 2027

- **Relevant Courses:** Data Structures and Algorithms, Systems Programming, Computer Architecture, Machine Learning, Artificial Intelligence, Microprocessor Systems

EXPERIENCE

Software Test Infrastructure Intern

Sep 2025 – Dec 2025

Nokia

Ottawa, ON

- Incoming Fall 2025

Software Developer Intern

Sep 2024 – Aug 2025

University of Toronto Department of Computer Science

Toronto, ON

- Optimized **PostgreSQL** queries by resolving N+1 inefficiencies and tuning **Ruby on Rails** Active Record logic, cutting backend latency by **96.7%** and improving dashboard load times for **10,000+** users.
- Refactored asynchronous backend jobs from polling to **WebSockets** using **ActionCable**, improving real-time responsiveness and reducing server load by enabling instant feedback during exam processing workflows.
- Expanded **Coveralls** test coverage reports using **Rspec** unit tests, boosting test coverage to **95.2%** and stabilizing CI by catching regressions in edge cases.
- Redesigned the data processing logic in a **Python** educational tool to support complex data structures, improving the clarity and accuracy of visual code diagrams used by **2000+** students.
- Developed snapshot tests using **Jest** to validate diagram rendering logic, improving CI reliability in a large-scale **TypeScript** monorepo.

PROJECTS

Syllabus Parser | 4th Overall at UofTHacks12 | Typescript, React, Express.js, Node.js, Auth0

Jan 2025

- Developed a productivity tool that uses **Google Gemini** to parse course syllabi and create dynamic schedules, securing user authentication and authorization with **Auth0**.
- Designed and engineered **RESTful APIs** to handle file uploads, parse syllabus data, and manage calendar settings with real-time updates based on user interactions.

Multilingual Chat App | Java, MongoDB, DeepL API

Nov 2024 – Dec 2024

- Built a multilingual messaging platform with real-time translation in 11 languages, using the **DeepL API** and **MongoDB** for efficient data sync and seamless communication.
- Engineered scalable backend services for user management, group chats, and event functionality by implementing **Model View Controller** architecture design patterns.

Instagram Unfollowers | Python, Streamlit

June 2024 – July 2024

- Built and deployed a **Python**-based social media analytics tool using **Streamlit** to process Instagram JSON exports and identify unfollower metrics.

AI Video Generator | Python, OpenAI Whisper, Google Cloud, Reddit API, FFmpeg

Apr 2024 – Aug 2024

- Created an automation tool in **Python** to generate TikTok videos using **OpenAI Whisper**, **Google Cloud**, **FFmpeg** and **Reddit API**, reaching **60,000+** views/month.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, Java, C, C++, Ruby, JavaScript

Developer Tools: Git, Docker, MongoDB, PostgreSQL, Docusaurus, Unix

Frameworks/Libraries: Ruby on Rails, React, Node.js, Express.js, RSpec, Streamlit, Jest, JUnit, Pytest