Siddharth Iyer

+1 437-243-4948 | siyer2405@gmail.com | in LinkedIn | GitHub | J-1 Eligible

EDUCATION

University of Toronto   Sept 2023 - May 2027

Bachelor of Science - Computer Science (Honours)   *Toronto, ON*

- Computer Science Specialist, Mathematics Minor, $3000 in Scholarships.
- Core Courses: Data Structures and Algorithms, Databases, Machine Learning, Artificial Intelligence.

EXPERIENCE

Software Developer | *Angular, Node.js, .NET Core, Visual Studio, SSMS, Git*   May 2025 - August 2025

Axiom Group Inc.   *Toronto, ON*

- Deployed and maintained ERP (Prism) features **used by 200+ employees** across Canada, USA, and Mexico.
- Led Angular migration from v8 to v19, **reducing live production build times by 25+ seconds**.
- Delivered **15+ production features** in collaboration with department team leads and operations managers, spanning inventory tracking, HR forms, accounting logs, and production scheduling.
- Optimized backend RESTful APIs with Node.js and SSMS, for improved querying speeds and API caching.

PROJECTS

Pathway | *Next.js, OpenAI, Chromadb, Git*

- Developed a tool for course recommendations and scheduling using Next.js and OpenAI prompts.
- Improved efficiency by **reducing course search time by an estimated 70%** compared to manual browsing.
- Utilized Python web-scraping with BeautifulSoup to scrape a university website for course information.
- Engineered prompts to a Chromadb embeddings model to align OpenAI responses with user queries.

Fly-Easy | *React Native, Flask, Git*

- Led the UI/UX and AI integration for a mobile React-Native and Flask airport companion app.
- Integrated Aerodatabox API for realtime airport and flights status, and Google's Places API for location tracking.
- Implemented classical AI constraint satisfaction with greedy algorithms to recommend personalized itineraries (hotels, restaurants, attractions) based on trip duration, dietary preferences, personal interests, and weather conditions.
- Assessed efficiency of algorithm against Claude Sonnet's constraint solving, **receiving an average score of 83.4 as opposed to Claude's 83, as a result of 20% more hard constraint satisfaction**.

Full Stack Task Tracker | *Angular, .NET Core, MySQL, Docker*

- Built a full-stack task tracker with Angular **enabling several peers to manage 50+ tasks in a month**.
- Architected RESTful API using .NET Core and Entity Framework with Docker containerization for deployment.

Dr.Mario | *Assembly, MIPS Architecture*

- Programmed complete Dr.Mario puzzle game in MIPS assembly, featuring pill rotation, and collision physics.
- Implemented game state management, collision detection, and win condition logic within hardware constraints.

TECHNICAL SKILLS

Languages: Python, Java, Javascript, Typescript, SQL, C, C++, C#, HTML, CSS, Assembly
Frameworks/Libraries: Angular, Next.js, Node.js, React Native, .NET Core, EF Core, Flask, Unity, NumPy
Databases: MSSQL (SSMS), MySQL, PostgreSQL
Developer Tools: Git, Docker, Vim, Linux