Tony Li

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Masters in Computer Science   *2024*

Carleton University   Ottawa, ON
Bachelor in Computer Science (GPA: 9.5/12)   *Graduated Apr 2023*
- **Relevant Coursework**: Data Structures and Algorithms, Functional Programming, Database Management Systems, Discrete Structures I&II, Computer Vision, Cryptography

TECHNICAL SKILLS

Languages: JavaScript, Typescript, Python, HTML/CSS
Frameworks & Libraries: React, React Native, Node.js, Next.js, Express, TailwindCSS
Other: REST API Development, OpenAI, Firebase, MongoDB, Object-Oriented Programming(OOP)

EXPERIENCE

Fortinet   April 2023 - August 2023
Software Developer | React, Typescript, Git, Tailwind CSS   *Vancouver, BC*
- Contributed to **FortiManager**, a widely-adopted tool streamlining network security through centralized **configuration**, **monitoring**, and troubleshooting of Fortinet devices
- Collaborated with QA and back-end teams, improving project coordination and product quality.
- **Optimized** FortiManager code, significantly boosting its **scalability for large-scale network management**
- Resolved numerous **complex customer issues** promptly, boosting user satisfaction and **product reliability**.
- **Designed and integrated advanced features** to FortiManager, such as a full-fledged UI to house a complex Packet capturing system

IBM   Jan 2022 - May 2022
Software Engineer | React, Typescript, Gitlab, Sonarqube, SCSS, Carbon UI   *Toronto, ON*
- Collaborated with a 5-member team to refine features and uphold application performance, **boosting efficiency**.
- Improved **component load speed by 20%** through development and refactoring of component logic
- Addressed and **resolved 80% of code bugs and smells** detected by SonarQube, significantly improving code quality, stability, and maintainability.

Royal Bank of Canada   Aug 2021 - Jan 2022
Software Engineer | Python, Flask, Helios, Jenkins, SQL, HTML/CSS   *Toronto, ON*
- Championed the creation of a **Flask web app**, dramatically elevating team productivity and operational efficiency
- Optimized back-end logic, **boosting application performance by 5x and significantly increasing team productivity by 15%**, enabling faster delivery of high-quality features and enhancements to end-users
- Crafted comprehensive **Confluence documentation**, streamlining future development and maintenance.

Seedwell Inc   Jan 2021 - May 2021
Software Engineer | React, Typescript, GraphQL, Git   *Toronto, ON*
- AI fintech solution tackling productivity loss due to employee financial stress.
- Transformed 20+ user stories into dynamic features using **React, and GraphQL**.
- Developed **dynamic UI components**, streamlining and **reducing development time by an estimated 20%**

PROJECTS

WhatDo | *React Native, Typescript, OpenAI, Firebase, ContextAPI, TailwindCSS*
- WhatDo is an **AI powered mobile application** that curates personalized activity recommendations for groups or individuals in their local area, leveraging user-defined preferences and filters
- **Integrated OpenAI's Function Calling with GPT-3.5-turbo-0613 to enhance the AI output**, enhancing app decision-making capabilities and reliability
- Used **Firebase for real-time data and auth**, Tailwind CSS for UI, and Context API for state management, ensuring a **highly scalable, user-friendly experience**

Pathfinding Visualizer | *React*
- Engineered an application to **dynamically visualize** the inner workings of pathfinding algorithms in **real-time**
- Implemented **Dijkstra's and A* algorithms**, offering users a visualization of different pathfinding methods
- Users can **customize obstacles and define start/end points**, then app **visualizes and computes the optimal path**.