

ELLISON CHEN

FULL STACK WEB DEVELOPMENT

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📍 Toronto, ON

EDUCATION

Bachelor of Science in Medical Physics
Toronto Metropolitan University

2015 – 2020

- Developed complex data analytical algorithms for thesis research.
- Researched scientific papers and wrote reports on findings.

DEV + TECH SKILLS

Languages:

JavaScript • Python • Matlab/Octave

Backend Technologies:

- Node.js, Express.js, MongoDB: Backend development focusing on performance and scalability.
- SQL, Sequelize, Mongoose, Python Flask, SQLAlchemy: Advanced database management and API development.
- Dotenv, Bcrypt: Web application development with enhanced security

Frontend Technologies:

- React, Vue.js, Vite, JQuery
- Bootstrap, Tailwind, Material UI (Mui), Ant Design
- Three.js, OpenGL Shading Language: Advanced frontend features including 3D graphics and custom shaders.

Data Analysis Technologies:

- Image analysis and data visualization and simulation via Matlab/Octave
- Data analysis using basic algorithms using Python

NON-TECHNICAL SKILLS

Core Technical Competencies:

- Critical Thinking and Problem Solving
- Progress Reports
- Statistical Analysis
- Adaptability/Flexibility

Leadership and Initiative:

- Driven and Self-Motivated
- Team Management Experience

Communication and Collaboration:

- Effective Communication
- Professional Writing
- Working with Others and Acting as a Supportive Team Member

Overview: I am a full-stack developer who, in addition to having outstanding programming skills, am also proficient in data analysis, project coordination, customer experience, physics, and biology. I have a significant background in successfully delivering complex technical solutions in challenging environments, and have a strong understanding of both technology and the health industry.

WORK EXPERIENCE

Lead Full-Stack Developer

TaskMapper, Applied-Wellness Software Startup

Jan 2023 – Present

- Directed the development of foundational technology for forthcoming products, setting strategic direction to ensure innovation and market relevance.
- Architected and managed sophisticated backend systems, significantly contributing to the development of front-end components for seamless integration and functionality.
- Facilitated regular team meetings to brainstorm project ideas, fostering a culture of innovation, encouraging the incorporation of new features to enhance software offerings, and adopting cutting-edge practices to future-proof products and surpass industry standards.
- Managed a team and created an environment of collaboration and effective communication to streamline project execution and further problem-solving.
- Forged effective collaboration paths through cross-functional challenges to meet project objectives within a highly interdisciplinary team.

Web Developer

Berlitz Corporation

August 2018

- Independently designed and developed a chatbot to facilitate language learning from scratch, utilizing JavaScript, HTML, and CSS to create an interactive and user-friendly experience.
- Regularly participated in project meetings providing comprehensive updates on development progress, addressing feedback, and consistently exceeding project expectations through meticulous attention to detail and proactive problem-solving.
- Contributed to the documentation process, creating detailed guides and technical documents that facilitated smooth onboarding for new team members
- Conducted thorough testing and debugging of the chatbot, ensuring optimal functionality and user experience and satisfaction.

Research Assistant

Toronto General Hospital (JDMI)

Jul 2017 – Apr 2018

- Managed and organized a high volume of confidential medical imaging data to optimize analysis, utilizing Microsoft Excel for organization and Matlab for compiling information into visual representations.
- Collected and analyzed quantitative data from Electronic Patient Records, providing crucial insights for the head researcher's analysis.
- Actively participated in key research discussions, including meetings with foreign representatives, contributing valuable insights that addressed previously overlooked considerations in the research.
- Demonstrated expertise in collecting, tabulating, and conducting comprehensive data analyses on medical imaging data, supporting the advancement of research objectives, resulting in being asked to stay on past initial work contract