

Mike Li

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Education

McMaster University

Hamilton, ON

Bachelor of Engineering in Software Engineering Co-op

May 2023

Experience

Student Software Engineer

May 2021 – August 2022

Evertz Microsystems

Burlington, ON

- Developed a full-stack content library web app using React, MongoDB and Node.js, enhancing team productivity by streamlining file organization and metadata retrieval
- Identified inefficiencies in AWS EC2 instance management and automated their deployment to reduce weekly server costs by thousands of dollars
- Automated resource management and accelerated data integration by monitoring AWS S3 buckets with real time file detection and processing
- Implemented a screen scraper to update product dependencies during deployments, significantly enhancing deployment efficiency
- Collaborated with cross-functional teams in a remote environment to effectively streamline development and rapidly adapt tech to meet evolving customer needs

Projects

Starfield Blueprints | *React, TypeScript, MongoDB, Node.js*

February 2024

- Developed a full stack web application that allows users to create and share starship designs from the game "Starfield", with Node.js serving a REST API and React as the frontend
- Integrated image upload functionality via AWS S3
- Implemented MongoDB for efficient storage and retrieval of design and user data
- Leveraged Playwright and Jest for comprehensive end-to-end and unit testing respectively

☞ **Star Rail Warp Sim** | *React, JavaScript, HTML, CSS*

June 2023

- Developed a web-based simulator of random item acquisition events in the game "Honkai Star Rail"
- Achieved significant user engagement with over 200,000 unique visits and a daily user base
- Optimized content load time and reduced bandwidth usage to improve user experience
- Tailored the app to handle all screen sizes and device types using responsive design principles

☞ **Restaurant Ordering System** | *React, MySQL, Node.js, JavaScript*

August 2023

- Developed an ordering system that allows customers to make orders and staff to handle orders
- Integrated MySQL to store user and order information to facilitate seamless interaction between customer and staff views with RESTful API
- Collaborated with a team to develop an interactive front end with Tailwind CSS

Skills

Languages/Technologies: JavaScript (Node.js, TypeScript, React.js, Next.js, Express), Python, Java, SQL, MongoDB, AWS, HTML, CSS, REST API, Jest, Pytest

Developer Tools: Jira, Confluence, Git, Jenkins, Ansible, Scrum, Agile