

# Mike Li

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## EDUCATION

**McMaster University**  
*Bachelor of Engineering in Software Engineering*

Hamilton, ON  
May 2023

## EXPERIENCE

**Student Software Engineer**  
*Evertz Microsystems*

May 2021 – August 2022  
Burlington, ON

- Developed a full-stack media library app with React, MongoDB, and Node.js to increase team efficiency by streamlining file organization and metadata retrieval
- Identified inefficiencies in AWS EC2 instance management and automated their deployment to reduce weekly server costs by 60%
- Implemented a load balancer for VMware clusters to optimize resource allocation and ensure availability for multiple hosts
- Maintained Jenkins pipelines to automate build and deployment processes, reducing manual intervention and improving release efficiency
- Collaborated with cross-functional teams in a remote environment to streamline development and rapidly adapt tech to meet evolving customer needs

## PROJECTS

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

February 2024

- Created 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 a MongoDB database for efficient storage and retrieval of design and user data
- Used Playwright and Jest for comprehensive end-to-end and unit testing

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

June 2023

- Built 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

**PyERT** | *Python*

September 22 – April 2023

- Developed a Python-based episode reconstruction toolkit for processing GPS data and mapping it to a GeoJSON network as part of a capstone project
- Implemented a module to extract data from GPS points and processed the data to improve performance
- Ensured reliability and functionality between modules through comprehensive tests with Pytest

## TECHNICAL SKILLS

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

**Developer Tools:** Git, Jira, Ansible, Jenkins, VS Code, PyCharm, Eclipse, Scrum