

Joshua Mac

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Technical Skills

Programming Languages: JavaScript, Python, C/C++, SQL (PostgreSQL, MongoDB), VB.NET

Frontend: React, Vue, D3.JS, Bootstrap, Tailwind

Backend: Node.JS, Express.JS, Flask, RESTful APIs, GraphQL

Testing & Automation Tools: Selenium, Pytest, CI/CD, Git, Docker, Vercel

Experience

Software Engineer

TELUS | September 2024 – January 2025

TELUS | January 2023 – August 2023

- Designed and implemented Oasis, an integrated tool utilizing React and VB.NET, to streamline project organization, wireline management, and network operations at TELUS
- Leveraged Python libraries such as NumPy and Pandas to analyze and integrate real-time network operations data, monitoring wirelines and networks efficiency, identifying potential bottlenecks and presenting actionable insights to team
- Automated regression testing with Selenium, reducing manual testing efforts by 50% and improving defect detection rates by 40%

Full Stack Engineer

Mitsubishi | May 2022 – January 2023

- Developed and maintained the company's Component Tracking Tool application using React and Flask, enhancing component tracking and authentication for specific operators
 - Streamlined testing for the Component Tracking Tool using Pytest, ensuring seamless integration across React and Flask components
 - Conducted monthly updates on component performance by extracting data from Oracle database and presenting insights through Excel's advanced visualization for operators and clients
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Projects

DevHub: Developer Portfolio & Blogging Platform

- Developed a full-stack web app using React, Redux, Node.js, Express, and PostgreSQL, featuring JWT/OAuth authentication and a real-time commenting system with WebSockets
- Designed and deployed an interactive project gallery & blogging platform on Vercel and seamless navigation with Tailwind CSS & React Router

Movie Recommender Application with RESTful API and Authentication

- Built a full-stack movie recommendation engine with React, Node.JS, Express, and PostgreSQL, integrating TMDB API for real-time movie suggestions
 - Implemented secure JWT authentication, a responsive UI/UX, and a dynamic search & filtering system for personalized recommendations.
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Education

Queen's University, Kingston, ON

Bachelor of Applied Science, Computer Engineering

- **Relevant Courses:** Data structures, Object Oriented Programming, Fundamentals of Software Engineering, Algorithms, Computer Vision, Machine Learning and Deep Learning, Engineering Design and Practice