

Jake Joseph

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EDUCATION

McMaster University <i>Computer Science (Honours Bachelor of Applied Science)</i>	Sept. 2020 – April 2023 GPA: 3.93
McMaster University <i>Mechanical Engineering (Bachelor of Engineering)</i>	Sept. 2014 – April 2019 GPA: 3.14

EXPERIENCE

Geotab <i>Software Developer Intern</i>	Sept. 2021 – Jan. 2022 <i>Oakville, ON</i>
<ul style="list-style-type: none">Reduced the release time of features by developing reusable UI components using Typescript, HTML and CSS.Implemented unit tests using Jest to ensure the UI performed as intended and to protect against future bugs.Collaborated with product managers, designers and data scientists to develop features in an agile environment.	
Husky Injection Molding Systems and Niigon Machines <i>Mechanical Engineer</i>	July 2019 – Apr. 2020 <i>Bolton and Woodbridge, ON</i>
<ul style="list-style-type: none">Led multiple projects resulting in an annual savings of over \$100K, customer retention, and a patent.	

TECHNICAL SKILLS

Languages: JavaScript/Typescript, HTML/CSS/LESS, Python, Java, SQL (Postgres), NoSQL(MongoDB)
Frameworks: React, Node.js, Express, Jest, Tailwind CSS, Material-UI, Next.js
Developer Tools: Git, Jira, VS Code, Visual Studio, Figma, AWS, Firebase, Netlify, Heroku
Libraries: NumPy, Matplotlib

PROJECTS

Stronger <i>React, Tailwind CSS, Figma, Nodejs, Express, MongoDB</i>	github.com/jakejosephcs/Stronger
<ul style="list-style-type: none">Developed a full stack web application that allows anyone to track their weightlifting workouts in the gym.Crafted the UI in Figma and implemented it using Tailwind CSS for styling and React for the UI components.Utilized Node.js and Express to construct a REST API while storing the user's data inside MongoDB Atlas.Designed and implemented features that include: user registration and login (including authentication and authorization), CRUD operations with both exercises and workouts, workout history and statistics.	
Top Eats <i>React, MaterialUI, AWS S3, Firebase, Node.js, Express, MongoDB</i>	github.com/jakejosephcs/Top-Eats
<ul style="list-style-type: none">Developed a web application that allows users to search (or create) restaurants and see (or add) reviews for them.Leveraged React to create a single page application and MaterialUI to create a seamless user interface.Incorporated client side and server side validation to ensure the correct data is provided and in the right format.Ideated and implemented features that include: restaurant search by name, location or rating, dynamically generated pages, image upload via AWS S3, user authentication via Firebase.	
Stress Analyzer <i>Python, NumPy, Matplotlib</i>	github.com/jakejosephcs/Stress-Analyzer
<ul style="list-style-type: none">Developed a structural analysis tool using Python to determine if a design will fail in certain loading conditions.Utilized libraries such as NumPy and Matplotlib to calculate and display critical angles and stresses.Validated code by implementing unit tests and following a test driven development approach.	
Shoppies (Shopify Intern Challenge) <i>React, CSS, OMDb API</i>	github.com/jakejosephcs/Movie-Nominations
<ul style="list-style-type: none">Created a web application using React that allows users to nominate movies using the OMDb API.Utilized React Hooks (useContext) to share and update nomination state between various components.Enabled users to return to the website without losing their nominations by making use of localStorage.Implemented routing using React Router and deployed working application to Heroku via Github.	

RELEVANT COURSE WORK

Data Structures and Algorithms, Web Systems And Web Computing, Computer Architecture, Discrete Mathematics, Advanced Calculus, Statistics, Communication Skills