Jake Joseph

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EDUCATION

McMaster University   Hamilton, ON
Honours Computer Science (B.A.Sc.) GPA: 3.93/4.00   *Sept 2020 – May 2022*

McMaster University   Hamilton, ON
Honours Mechanical Engineering (B.Eng.) GPA: 3.14/4.00   *Sept 2014 – May 2019*

PROJECTS

Review Classifier | *HTML, CSS, Javascript, OpenAI API*
- Developed a web application using vanilla Javascript to classify reviews based only on provided examples.
- Classified new reviews by sending a POST request to the classification endpoint of the OpenAI REST API.
- Crafted a custom User Interface using CSS Flexbox and CSS Grid to allow users to interact with the application.

Shopify's The Shoppies | *React, CSS, OMDb API*
- Created a web application using React to allow users to nominate their favorite 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.

Portfolio Website | *HTML, CSS, Javascript*
- Developed a website to display the fundamentals of web development while showcasing projects and information.
- Ensured design was responsive using media queries along with CSS Flexbox and CSS Grid.
- Deployed final design to Github via GitHub Pages.

EXPERIENCE

Niigon Machines   Feb. 2020 – Apr. 2020
Mechanical Design Engineer   *Vaughan, ON*
- Developed, designed, and manufactured various structures to prevent machine vibration and increase rigidity.
- Assisted in complex injection machine retrofits to solve recurring problems.
- Explored new injection designs to further reduce cost and improve performance of Niigon's latest injection design.

Husky Injection Molding Systems   July. 2019 – Feb. 2020
Mechanical Design Engineer   *Bolton, ON*
- Developed, designed, and retrofitted new guarding for Husky's latest recycling injection molding machine.
- Assessed various defective injection devices across all platforms to provide quick resolutions and reduce downtime.
- Maintained design documentation and delivered department-wide presentations during design reviews.

Mechanical Design Engineering Intern   *May 2017 - Aug 2018*
- Spearheaded three critical projects resulting in an annual savings of over $100K, customer retention, and a patent.
- Investigated and resolved machine-related field service issues through in-depth root cause analysis.
- Managed own projects and schedules to ensure deliverables were completed on time and within budget.

TECHNICAL SKILLS

Languages: JavaScript, Python, HTML/CSS, NoSQL (MongoDB), Java
Frameworks: React, Node.js, Express
Developer Tools: Git, Visual Studio Code, Google Cloud Platform
Libraries: NumPy, Matplotlib

RELEVANT COURSE WORK

Data Structures and Algorithms, Computer Architecture, Discrete Mathematics with Applications, Introduction to Software Development, Principles of Programming, Communication Skills