

# Jake Joseph

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## EDUCATION

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### McMaster University

*Honours Computer Science (B.A.Sc.) – GPA: 3.93/4.00*

Hamilton, ON

*Sept 2020 – May 2022*

### McMaster University

*Mechanical Engineering (B.Eng.) – GPA: 3.14/4.00*

Hamilton, ON

*Sept 2014 – May 2019*

## TECHNICAL SKILLS

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**Languages:** Javascript, Python, HTML/CSS, NoSQL (MongoDB), Java

**Frameworks:** React, Node.js, Express

**Developer Tools:** Git, Visual Studio Code, Figma, Google Cloud Platform

**Libraries:** NumPy, Matplotlib

## PROJECTS

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### Review Classifier | *HTML, CSS, Javascript, OpenAI API* | [git.io/JGpln](https://github.com/jakejosephcs/JGpln)

- Developed a web application using vanilla Javascript to classify reviews based only on provided examples.
- Classified new reviews by sending an HTTP POST request to the classification endpoint of the OpenAI API.
- Crafted a custom User Interface using CSS Flexbox and CSS Grid to allow for a seamless user experience.

### Movie Nominations (Shopify Intern Challenge) | *React, CSS, OMDb API* | [git.io/JGpBN](https://github.com/jakejosephcs/JGpBN)

- 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* | [git.io/JGpRl](https://github.com/jakejosephcs/JGpRl)

- 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

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### Niigon Machines

*Mechanical Design Engineer*

Feb. 2020 – Apr. 2020

Vaughan, ON

- Developed, designed, and manufactured various structures to reduce machine vibration by 80%.
- Assisted in complex injection machine retrofits to solve recurring problems.
- Explored new injection designs that reduced cost by at least 20% while improving performance by 10%.

### Husky Injection Molding Systems

*Mechanical Design Engineer*

July. 2019 – Feb. 2020

Bolton, ON

- Designed and retrofitted safety guarding for Husky's latest recycling-focused 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 over 23 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.

## RELEVANT COURSE WORK

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Data Structures and Algorithms, Computer Architecture, Discrete Mathematics, Advanced Calculus, Statistics