Brian Lee

✉ bj22lee@uwaterloo.ca | ⓞ brnjlee | https://brnjlee.com

Skills

Languages	JavaScript/TypeScript, Ruby, Python, SQL, C++, Java
Frameworks	React, Redux, Vue, GraphQL, Node, Rails, Express, Flask, Docker
Databases/ORMs	PostgreSQL, MongoDB, MySQL, Redis

Experience

NVIDIA   *Santa Clara, CA*
Software Engineering Intern   *Apr. 2021 - Aug. 2021*
- Developed a service for managing product test configurations using **Node**, **React**, and **Redux**
- Implemented **Rake** tasks to handle product spec modifications, reducing engineer workloads by 10%
- Contributed to the modernization of services, introducing **React** hooks to the frontend application

Vidyard   *Kitchener, ON*
Software Engineering Intern   *Sept. 2020 - Dec. 2020*
- Developed a cross-folder search service in **Rails**, ensuring optimal performance and usability with use of **GraphQL** and **ElasticSearch**
- Improved Library page accessibility coverage by 25% using **Vue**, complying with WCAG 2.0 AA standards

Universe   *Toronto, ON*
Full Stack Engineering Intern   *Jan. 2020 - Apr. 2020*
- Developed embeddable calendar widget to display ticket availability for events using **React** and **Rails**
- Reduced page load times by 20% by implementing **Apollo Client** within multiple front end services to handle **GraphQL** requests
- Migrated the Event Display Page from ES6 to **Typescript** to enhance code quality and clarity

Emagin   *Kitchener, ON*
Full Stack Engineering Intern   *Apr. 2019 - Aug. 2019*
- Developed new features in metrics dashboard redesign using **React + Redux**, **GraphQL** and **Flask**
- Built a **Highcharts** graph visualization tool to display water pump activity and forecasts

Empire Life   *Toronto, ON*
Frontend Engineering Intern   *Sept. 2018 - Dec. 2018*
- Collaborated with team of developers to design and develop a **React + Redux chatbot** module
- Integrated **Google Dialogflow** to facilitate client queries producing a 80% decrease in CSR workload

Projects

HindSight
Capstone Design Project   *Oct. 2021 - May. 2022*
- Collaborated in the design and development of a blind spot warning system for cyclists
- Built a vehicle detection and distance forecast workflow using **YOLOv3** paired with the multi-object tracking framework **SORT**

Education

University of Waterloo   *Waterloo, ON*
BASc, Systems Design Engineering   *Sept. 2017 - June 2022*
- Relevant courses: Data Structures and Algorithms, Engineering Design, Machine Intelligence