

Aster Wu

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Skills

Languages: JS/TS, Python, Rails, Java, C, C#, GraphQL

Frameworks: ReactJS + Redux, React Native, NodeJS, Apollo, HTML/CSS

Environment and Tools: Git, ZenHub, Travis, SVN, Jira, IBM Cloud, Kubernetes, Docker, Helm

Education

University of Toronto

Honours BSc. Computer Science – Software Engineering, Co-op

Sept 2017 – May 2022

Experience

IBM

Software Engineer Intern

Markham, Ontario

May 2020 – Present

- Performed DevOps practices, including infrastructure as code, automated testing, continuous integration, and continuous deployment of different services with Travis CI, Docker, and Kubernetes
- Worked closely in a cross-functional team of data scientists, designers, and engineers to develop a learning platform using React and Redux that allows learners to build Computer Vision & AI applications
- Managed, tested, and refactored flagship site based on designer wireframes and stakeholder specifications using Rails, Python, Django, and Kubernetes to improve operability for over 4M users
- Released a course, “Deploy an AI-powered Discord Bot with a Voice” to introduce learners with no programming experience with JS, Node.js to attract learners to IBM products which has gained consistently high ratings since its release
- **Languages/Tools used:** JS, Rails, React, Python, Java, Kubernetes, Helm, PostgreSQL, MongoDB

Treasury Board Secretariat

Web Developer Co-op

Toronto, Ontario

Dec 2018 – Aug 2019

- Modernized UI and recreated existing pages of the organization site collection with input from stakeholders/users using React to meet WCAG 2.0 compliance and AODA compliance
- Developed and tested an internal issue tracking and management tool which utilizes SharePoint as the backend, releasing daily features based on user requests
- Worked with subject-matter experts to provide technical training and support to 100+ clients on how to design webpages with accessibility in mind, raising overall site accessibility rating by 80% and improving interpersonal skills
- **Languages/Tools used:** HTML, CSS, JS, jQuery, React, SharePoint, Photoshop, Illustrator

Highlighted Projects

Carbon Cash | IBM Intern Hackathon App

July 2020

- Developed a Flutter mobile app hosted on Firebase to determine ways to offset ecological footprint in the form of CO2 emissions produced through driving
- Communicated product features, codebase, and workflow to a cross-disciplinary review panel
- **Languages/Tools used:** Firebase/Firestore, Flutter, NodeJS, Google Maps API

Planit | Auto Itinerary Creation App

Sept 2019 – Dec 2019

- Developed a layout and components to showcase activities based on user preferences and filters, collaborating with backend devs to implement RESTful APIs in the MVC design pattern
- Proactively communicated new ideas and opinions with other members on the team on a tight schedule to release a functional app for review
- **Languages/Tools used:** Firebase/Firestore, ExpressJS, React Native, NodeJS, Yelp API, Google Maps API