Jeremy Sun

j338sun@uwaterloo.ca | (416)-854-4803 | jeremysun.me | linkedin.com/in/jeremy-sun | github.com/jeremyj-sun

Innovative and versatile software engineer with **3+** years of experience in full-stack development and automation. Self-motivated learner recognized for exceptional analytical skills, boosting pipeline efficiency by **70+%**, among others.

Technical Skills

- **Languages:** JavaScript, TypeScript, Java, PHP, SQL, HTML, CSS, Python, Bash, C, C++, R, GraphQL, JSON, XML
- **Frameworks:** Node.js, React, Vue.js, jQuery, Express, Mocha, Laravel, Spring, Bootstrap
- **DevOps:** Docker, Linux, AWS, GCP, Firebase, Git, GitLab, Jira, Jenkins, VNC, NGINX, Tomcat
- **Databases:** MongoDB, MySQL, MariaDB, Firestore
- **Tools:** DevTools, Postman, Selenium, npm, Gradle, Maven, Make, Jupyter, Jekyll, Figma, Illustrator

Work Experience

Software Test Engineer | **Homecare Hub**　　　　　　　　　　　　　　　　　　　　MAY – AUGUST 2021

- Initiated, designed, and developed an extensible, **Node.js** web crawler proven to successfully audit web domains, upload generated test reports to an **S3 Bucket**, and catch software defects.
- Identified and eliminated bottlenecks in the application deployment pipeline, improving build speed by **75%**.
- Configured and deployed a containerized **VNC Server** on **EC2** to enable remote debugging of **Selenium** scripts.
- Implemented dynamic email templates using **Laravel Blade** and **PHP**, cutting over **6000** lines of redundant HTML to simplify code maintenance.
- Developed a tool for patients to request a quote and generate a PDF using a **Vue.js**, **Laravel** and **MariaDB** stack.

Web Application Engineer | **Ontario Institute for Cancer Research**　　　　　　　MAY – AUGUST 2020

- Discovered and resolved security vulnerabilities in the file upload system of PHI sensitive, **MERN** web apps.
- Identified **90+** API/UI defects by analyzing source code, data in **MongoDB**, and server logs in **Docker** containers.
- Automated regression test suites using JavaScript **Postman** API, **Bash** scripts, and **Selenium**, reducing the duration of repetitive functional testing operations by **70%**.
- Revamped the theming of responsive web pages and web forms using **HTML**, **Bootstrap**, **CSS**, and **Liquid**.
- Supported clients by providing online training, system documentation and design deliverables.

Software Projects

Story++ | **Hack the North 2020++**　　　　　　　　　　　　　　　　　　　　　　JANUARY 2021

- Implemented a dynamic, responsive frontend with **React** and Material-UI to navigate through interactive stories.
- Designed a NoSQL data schema for **Firestore** database to represent an interactive story as a directed graph.
- Developed **RESTful** API endpoints in **Express**, served on **Google Cloud App Engine**.

JavaScript Application Suite | jeremysun.me/projects　　　　　　　JULY – DECEMBER 2020

- Developed a responsive, customizable timer with **Bootstrap**, **CSS**, and **jQuery** to celebrate the upcoming Friday.
- Implemented an interactive, responsive chessboard with **HTML** canvas, **ES6** classes, and custom SVG assets.
- Aggregated projects on a **React** web app with a dynamic and intuitive user interface, hosted with **Firebase**.

Awards

- **B.P. Dammizio Scholarship** | **University of Waterloo**　　　　　　　　　　　SEPTEMBER 2019
  - 1 of 3 recipients recognized for outstanding achievement and interest in technological innovation.
- **YRDSB Top Scholar** | **York Region District School Board**　　　　　　　　　　JULY 2019
- **1st Place Varsity Chess Team** | **TSSCL Team Championships** | Toronto, ON　　FEBRUARY 2018

Education and Certifications

University of Waterloo | **Candidate for Bachelor of Computer Science, Honours, Co-op**　　2019 – PRESENT
Java SE 8 Programmer I Certification | **Oracle**　　　　　　　　　　　　　　　JANUARY 2020