

Jeremy Sun

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Technical Skills

- **Languages:** Python, JavaScript, TypeScript, Groovy, Bash, C#, C++, Java, Kotlin, PHP, Powershell, SQL, HTML, CSS
- **Infrastructure:** Docker, Linux, AWS, Azure, Kubernetes, PostgreSQL, MongoDB, InfluxDB, NGINX, HAProxy
- **Tools:** Jenkins, Ansible, Terraform, Grafana, Prometheus, Packer, Artifactory, Gradle, Selenium, Postman, Git
- **Frameworks:** Node.js, React, Vue.js, .NET, Laravel, Spring, jQuery, Express, Mocha, Bootstrap

Work Experience

Software Developer | Sony Interactive Entertainment | Waterloo, ON MAY 2023 – PRESENT

Software Developer | Sony Interactive Entertainment | Waterloo, ON SEPTEMBER – DECEMBER 2022

- Integrated telemetry into **Groovy** scripts to monitor rate, error and duration metrics for **Jenkins** CI/CD pipelines.
- Designed an **InfluxDB** schema for time series that optimizes query performance while minimizing tag cardinality.
- Queried, transformed and visualized statistical data in **Grafana** using **InfluxQL**, providing an analytics, observability and alerting platform for **300+** PlayStation continuous integration pipelines.
- Investigated how package reuse during dependency installations could save **500+** cumulative build hours per year.
- Implemented a **Node.js** reporting tool to store weekly telemetry snapshots in **Artifactory** for long-term retention.

DevOps Software Developer | Imagine Communications | Waterloo, ON JANUARY – APRIL 2022

- Developed a **Jenkins continuous delivery pipeline** with **Groovy** scripts to provision infrastructure, deploy microservices and automate tests, saving **8+** hours of manual configuration when validating new builds.
- Automated TLS certificate management for **Route 53** DNS, **.NET** apps and **HAProxy** using **Certbot** and **LetsEncrypt**.
- Led infrastructure team to resolve SSL protocol errors, ensuring on-time delivery of ABC-OTV playout systems.
- Prototyped **Packer** and **Python** scripts to migrate on-premises **VMware** images to compatible **AMIs** for **AWS EC2**.
- Standardized **Linux** virtual machine deployment through **Infrastructure as Code**, using **Terraform** and **cloud-init**.
- Created **Ansible** scripts to serve network shares across replicated **NGINX** containers in **Docker Swarm** clusters.

Software Test Engineer | Homecare Hub | Toronto, ON 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.
- 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 | Toronto, ON 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 **Postman** API and **Bash** scripts, reducing functional testing duration by **70%**.

Software Projects

Story++ | Hack the North 2020++ | devpost.com/software/story-levhaz 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.

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

- Aggregated projects on a **React** web app with a dynamic and intuitive user interface, hosted with **Firebase**.

Education and Certifications

University of Waterloo | Candidate for Bachelor of Computer Science | 3.97 GPA 2019 – PRESENT

Java SE 8 Programmer I Certification | Oracle JANUARY 2020