

# Jen-Wei(Will) Huang

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## EXPERIENCE

### • Software Engineer

*Siemens EDA*

May 2024 - Present

Saskatoon, SK, Canada

- Built a customer-facing release reporting system, consolidating test outcomes and resolved issues per release and integrating it into Jenkins-based delivery workflows.
- Extended the Squish automation framework by implementing custom object APIs that expose application components to the test runner, enabling robust end-to-end regression testing.
- Improved a parallel test execution framework by strengthening error handling, adding timeout controls and configurable output formats.
- Implemented and maintained Jenkins-based CI/CD workflows, including migrating legacy pipelines to ARM-based infrastructure, resolving architecture-specific failures.
- Took ownership of an internal Jira API-based web analytics service, enhancing filtering, sorting, and usability to support sprint planning and issue tracking.
- Developed Docker-based multi-OS testing environments to run applications and test frameworks in containers and collect execution results.

### • Software Developer Intern

*Nanalysis Scientific Corp.*

May 2021 - Aug 2022

Calgary, AB, Canada

- Implemented multiple NMR experiments by designing a user-friendly frontend, creating a reusable backend to manage diverse parameters, and developing efficient APIs for communication.
- Collaborated with the quality assurance team to automate the deployment process, leveraging JIRA API to document issues systematically, ensuring an error-free system ready for deployment.
- Optimized real-time visualization of NMR spectra with Matplotlib by implementing an algorithm for efficient continuous data point plotting, resulting in significantly improved performance.
- Automated RF tests on the embedded system, generating detailed graphical reports for analysis, eliminating the need for manual testing.

## PROJECTS

### • Restaurant Finder Web Application

*React, JavaScript, Google Maps API*

- Developed a location-based web application that helps users discover nearby restaurants using geographic data and user-defined preferences.
- Integrated Google Maps REST APIs to fetch restaurant data and implemented filtering by price range, cuisine type, and distance, including a randomized selection feature.

## EDUCATION

### • Bachelor of Science in Software Engineering

*University of Calgary*

Sep 2017 - Feb 2023

Calgary, AB, Canada

- With Distinction; Dean's List (2020-2021)

- Capstone: Developed GPS-tracking web app using React and Firebase (Team Lead)

## SKILLS

- **Programming Languages:** Python, JavaScript, C, C++, HTML, CSS, Java, Bash, Groovy
- **Tools:** Git, Docker, Qt, Squish, Jenkins, Linux, Jira, PyCharm, Cursor
- **Others:** CI/CD, DevOps, Automation Frameworks