

# Jen-Wei (Will) Huang

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## EDUCATION

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- **Bachelor of Science in Software Engineering** Sep 2017 - Dec 2022  
*University of Calgary* *Calgary, AB*
  - With Distinction; Dean's List (2020-2021)

## SKILLS

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- **Programming Languages:** Python, SQL, Java, C, C++, C#, JavaScript, HTML, Bash, Solidity
- **Tools:** Git, GitLab, React, Node.js, express.js, Bootstrap, PyCharm, Visual Studio, Firebase, MySQL, SQLite, NoSQL, Heroku, Junit, Selenium, Figma, Qt, Tenderly, Unittest, VirtualBox, KRDC, Wireshark
- **Others:** Software architectures, Object-oriented design, Cyber Security, Embedded Systems, Software Testing, UI design, Software performance, Agile and Scrum, JIRA, UML diagrams, Linux, Windows, Machine learning, ChatGPT

## EXPERIENCE

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- **Software developer intern** May 2021 - Aug 2022  
*Nanalysis Scientific Corp.* *Calgary, AB*
  - Consulted with stakeholders to develop new and customization of the existing features for the high field NMR spectrometer using Python.
  - Performed unit and integration tests for the software using Python unittest and compiled detailed reports of software bugs with JIRA to ensure software quality.
  - Revamping the UI and UX of the benchtop NMR to a more intuitive layout using Qt.
  - Automated hardware testing by integrating with software scripts to speed up the process.

## PROJECTS

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- **Pictionary**
  - A client-server based online game that allow multiple users to play Pictionary in real-time.
  - Designed intuitive layouts and real-time canvas for users to draw and display.
  - Developed RESTful APIs to provide client services, while using sockets to communicate between front-end and back-end.
  - **Technologies used:** HTML, CSS, JavaScript, React, Express, Socket.io, NoSQL, Firebase, p5.js
- **Tracking System**
  - A web application along with a mobile app that allow staff to track real-time location and organize the company's assets.
  - Conducted requirement elicitation with the stakeholders to design the application layout.
  - Applied multiple Google APIs to organize user schedules and real-time location.
  - Developed an automatic test to ensure software quality.
  - **Technologies used:** React, JavaScript, GoogleAPI, Firebase, NoSQL, Flutter
- **Smart Contract Bot**
  - An automatic program that listening on the block-chain in real time and interact with smart contracts directly.
  - Analyzed multiple smart contracts and adjusted the program to achieve different needs.
  - **Technologies used:** Blocknative, Alchemy, JavaScript, Solidity, Ethereum