

# Jennie Nguyen

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## EXPERIENCE

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**Product Analysis Lab Engineering Intern** — ON Semiconductor, San Jose OCT 2020 – DEC 2020

- Conducted reliability, calibration, verification & bench tests on Wi-Fi products in the quality analysis process
- Programmed Automated Curve Tracer test equipment using VBA, reducing each test runtime by 10+ minutes
- Supported development of failure analysis testing for new 11AX Wi-Fi technology

**Developer** — Tech4Good Lab, Santa Cruz JAN 2020 – OCT 2020

- Collaborated on python scripts to obtain course information from 10+ universities for a scheduling application
- Coded Google Apps Scripts in Javascript to automate the lab's qualitative analysis research process, set sharing permissions for 150 users, and connect documents & spreadsheets
- Worked for 10+ hours/week to develop the UI components of the lab's applications and platforms using HTML & CSS
- Studied social computing, intersections of computational systems & computer interaction

**Systems Engineering Intern** — Bay Area Rapid Transit (BART), Oakland JUNE 2020 – AUG 2020

- Developed firmware & python scripts to test 3 types of sensors (ultrasonic, thermal, infrared) with Raspberry Pi 3B
- Compiled analysis of requirements, specifications, and Bill of Materials for procurement of equipment worth \$500
- Practiced Scrum Agile Methodology with Sprint backlogs, retrospectives, and daily Scrum meetings
- Researched new sensors to improve current fare gates, prevent fare evasion & enable faster and safer aisle passage

## PROJECTS

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**Bus Usage Monitoring** — Python, Go, HTML5, CSS3 [View on GitHub](#)

- Collaborate with a team of 6 on a senior capstone project that uses wifi probing to help transportation services deploy an efficient number of buses depending on the amount of people on a bus or in an area
- Developed a bus traffic simulator & backend component of bus management system handling database queries

**Frydge** — Javascript, Cloud Firestore, Ant Design, Jira

- Developed a web application with a team of 5 to store and display a user's food information (expiration date, owner, location, etc.) in various households
- Supported the team as Scrum Master by maintaining a burn-up chart and ensuring 7 user stories were completed

**Fitbit Data Visualization** — Javascript, Python, Fitbit API, Google Apps Scripts [View on GitHub](#)

- Co-created a tool that fetches a user's health data to extract the statistics into CSV files and Google Sheets
- Learned how to use Google Chart Tools to create user-friendly charts that visualize Fitbit data

## SKILLS

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| • <b>Languages:</b> Javascript, C, Python, Java, SQL, HTML/CSS | • <b>Operating Systems:</b> Windows, Linux, Unix                       |
| • <b>Project Management:</b> Git, Agile, Scrum, Jira, Notion   | • <b>Technologies:</b> Bash, VirtualBox, Matlab, I2C, Microsoft Office |
| • <b>Editors:</b> Visual Studio Code, Sublime                  | • <b>Spoken Languages:</b> English, Vietnamese, Spanish                |

## EDUCATION

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**University of California, Santa Cruz** PRESENT – MARCH 2021

*Bachelor of Science, Computer Engineering*

- Dean's Honors List Spring 2018 & 2020
- Courses Taken: Data Structures, Algorithms & Abstract Data Types, Computer Networking, Computer Systems Design, Database Systems, Operating Systems, VLSI Digital System Design, Computer Architecture, Electronic Circuits

## ACTIVITIES

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- Organizations: Mentor in Society of Women Engineers (SWE) & Vietnamese American Professional Women (VAPW)