

# Eric Cheng

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## Education

**Santa Clara University**, Santa Clara, CA, 95053

Expected Graduation: December 2019

B.S. Computer Science

**Lynbrook High School**, San Jose, CA, 95129

Graduated: June 2016

High School Diploma

## Skills

- C++, Java, C, ARM Assembly, Python, MySQL, PL-SQL, PHP, HTML, JavaScript, CSS, Hadoop, Django, Ruby on Rails, Scala
- GitHub, Eclipse IDE, Bash, gdb, Effective in Windows and Linux development
- Adobe (Photoshop, Illustrator, Animate) and Microsoft (PowerPoint, Word, Excel)
- Citation and bibliography management (Endnote, Mendeley)

## Experience

**Datiphy Inc.** Web Development Intern (San Jose, CA)

Summer 2018

- Helped to design Company Website and utilized Google Analytics to track visitor activity
- Used **Django** and **Bootstrap** in Python to develop a support and download page with download packages

**Neurostim Inc.** Research Intern (Palo Alto, CA)

Summer 2017

- Conducted research in a four-member team to analyze non-invasive therapy for patients with incontinence
- Built website to showcase research goals and survey results
- Collaborated with VA Palo Alto Health Care and developed a **Java** program to analyze patient feedback and sentiments on Twitter and hospital healthcare surveys

**J-Tron Technologies** R&D Intern (Hsinchu, Taiwan R.O.C.)

Summer 2016

- Developed and analyzed the most recent IOT technologies
- Utilized **LoRa** sensors by SemTech to analyze wireless communication functionalities across long distances in urban vs rural areas
- Produced and translated technical documents to other members of the team

## Coursework

- |                                      |                         |
|--------------------------------------|-------------------------|
| • Object Oriented Programming in C++ | • Theory of Automata    |
| • Intro to Data Structures           | • Computer Graphics     |
| • Intro to ARM Assembly              | • Intro to Databases    |
| • Intro to Logic Design              | • Computer Networks     |
| • Theory of Algorithms               | • Programming Languages |
| • Operating Systems                  |                         |

## Projects

**Meteor Car Dealership Project**

- Worked with two team members on an automated record-maintenance system for simulated car repair
- Wrote **SQL** tables and queries to model relational diagrams and process user input data

**IP Routing Project**

- Applies the concept of Distance Vector routing to update table costs in neighboring nodes and find the shortest path between user inputted nodes
- Modification of the Link State Algorithm using Dijkstra's to calculate shortest path using UDP protocol

**Disk Scheduling Algorithm Simulations**

- Utilized **C** to run disk scheduling algorithms, and compared them to see which ones are more time efficient
- Runs Sequential and Random disk reads and compared time differences and causes using Operating Systems concepts. All scripts were run in **Bash**

**San Jose City Government Website**

- Developed Website for San Jose City government as part of Hack for Humanity Hackathon using **HTML** and **JS**
- Used Google Maps API to showcase local cultural sites