

# Bryan Ngo

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## Education

### University of California, Davis

Davis, CA

B.S. IN COMPUTER SCIENCE AND ENGINEERING, MINOR IN STATISTICS

Sep 2015 - Exp. Jun 2019

- Major GPA: 3.5/4.0

**Relevant Coursework:** Data Structures & Programming, Software Engineering, Algorithm Design, Programming Languages, Cryptocurrency Technologies, Discrete Mathematics, Computational Linguistics.

## Work Experience

### Genentech

Vacaville, CA

BIOLOGICS DRUG SUBSTANCE MANUFACTURING IT INTERN

Jun 2017 - Sep 2017

- Prototyped a full stack web application using Grails that allowed users to read and write to a database with more than a million lines.
- Used the previously mentioned database to create automated data analysis dashboards with Tibco Spotfire.
- Conducting meetings with clients to gather user requirements for the web application.
- Deployed Google Apps Scripts to automate smaller data analysis procedures in Google Sheets, saving an hour of work per week.

## Skillset

**Languages (Proficient):** C++, HTML, CSS, JS, Google Apps Script

**Languages (Familiar):** C, Java, Python, Bash, Prolog, Lisp, PHP, R, Jade

**Platforms & Frameworks:** Linux, Apache, MySQL, MongoDB, Express, Angular, Node, Grails, macOS

**Useful Tools:** Git,  $\LaTeX$ , Vim, CLI, Spotfire

## Extracurricular Activities

### DCSC (Davis Computer Science Club)

Davis, CA

CORE MEMBER '15 & SECRETARY '16 & TREASURER '17 & TUTOR

Sep 2015 - PRESENT

- Assisted in building a stronger CS community on campus by providing networking and programming events to over 100 students at least once a week for 10 weeks per quarter.
- Improved my communication of CS concepts by tutoring students for 3 hours a week in lower division CS courses.

### BCNC (Business Careers and Networking Club)

Davis, CA

CO-DIRECTOR OF TECHNOLOGY

May 2017 - PRESENT

- Implemented a full stack web application using MEAN to improve networking capabilities for over 13 partner organizations.
- Assisted in maintaining the club website using Jade/CSS/JS.
- Developed internal tools for the club such as a new officer application system and a website event updater UI for other officers to use.

## Projects

### Magic Mirror | Add Some Tech to your Morning Routine

SKILLS/TOOLS: JAVASCRIPT, MAGICMIRROR<sup>2</sup> - [HTTPS://GITHUB.COM/BRYNGO/MAGICMIRROR](https://github.com/bryngo/magicmirror)

Jul 2017 - Present

- Built an interactive magic mirror powered by a Raspberry Pi and an open source MagicMirror framework.
- Enables users to see the weather, read the news, and more - all without using a mobile device.
- Contributed an open source slideshow module to the developer community.

### TravelBuddy (CalHacks) | Eat more, stress less

SKILLS/TOOLS: PYTHON, JINJA - [HTTPS://GITHUB.COM/BRYNGO/TRAVELBUDDY](https://github.com/bryngo/travelbuddy)

October 2017

- Used the Google Vision, Google Maps, and Wikipedia API to implement a reverse search application for finding nearby restaurants.
- Users can upload photos of food to learn about the history and where to buy it.

### League Report Card | Play Smarter

SKILLS/TOOLS: JAVA - [HTTPS://GITHUB.COM/BRYNGO/LEAGUEREPORTCARD](https://github.com/bryngo/leaguereportcard)

Apr 2017 - May 2017

- Implemented a match summary reporter using a Java wrapper for the Riot Games API.
- Writes data to a csv file to be read into data visualizations.

### Visu-rithm (HackDavis) | Visual Algorithms for the Curious Programmer

SKILLS/TOOLS: SWIFT, SPRITEKIT - [HTTPS://GITHUB.COM/BRYNGO/VISU-RITHM](https://github.com/bryngo/visu-rithm)

Jan 2017

- Implemented an insertion sort visualization for iOS using SpriteKit to help new programmers understand basic algorithms.