# **BILLY CHOI**

☑ billc2501@gmail.com • ⊕ billc2501.github.io • ┕ 510.561.8705 • in billy-choi • ் San Francisco Bay Area

#### **EDUCATION**

#### California Polytechnic State University - San Luis Obispo

September 2019 - June 2023

Bachelors of Science in Computer Science

GPA: 3.664

• Notable Coursework: Systems Programming, Programming Languages, Design and Analysis of Algorithms, Computer Architecture, Project-Based OOP, Software Engineering I-II, Discrete Structures, Linear Analysis, and Calculus I-IV

## RELEVANT EXPERIENCE

Google | Mountain View, CA

June 2021 - Current

STEP Intern

- Designed and implemented infrastructure for policy migration launches, resulting in a sevenfold increase in iteration velocity.
- Created policy configuration to relax a certain auto-updating requirement for apps resulting in increase in freshness.
- Migrated an update notification instance from a deprecated system through utilizing protocol buffers and async methods.
- Analyzed constraint differences between client and server policies by drafting a SQL query and modifying some flags.
- Fixed multiple auto-update bugs such as a client foreground update issue and code smells in the codebase.

Pinterest | San Francisco, CA

June 2020 - July 2020

Engage Scholar

- Gained exposure to SWE topics through interacting with Pinterest staff in workshops as 1 of 41 selected students.
- Completed industry-relevant coding challenges and reviewed them with my mentor, improving code comprehension.

College Track | SF Bay Area

May 2020 - July 2020

CA Residency Scholar

- Conducted research on Fortune 500 corporations such as Salesforce, Accel, JP Morgan, RingCentral, and Bloomberg.
- Spoke with over 30 professionals through hosting 1-on-1 meetings and attending tours of aforementioned corporations.

## East Bay Municipal Utility District | Oakland, CA

June 2018 - July 2018

Pipeline Engineering Intern

- Produced entities such as trees and stop signs in Microstation and AutoCAD to be used in new pipeline maps.
- Updated the job metrics database through analyzing over 1,000 previous pipeline jobs and filling out an Excel spreadsheet.

### PROGRAMMING PROJECTS

Get-Involved Forum: Python, JavaScript

December 2020 - April 2021

- Contributed to a forum project deployed through Heroku and tested with Travis CI and Cypress as 1 of 5 developers.
- Developed user login authentication through implementing a Flask server and interacting with a MongoDB collection.
- Paired authentication with React router switches enabled by tokens to require logging in and out of the forum.

Unix Shell: C

October 2020 - November 2020

• Built a unix shell with implementation of IPCs in order to simultaneously handle multiple processes for all unix commands.

#### Food Ordering and Rating API: JavaScript

June 2020 - July 2020

- Constructed a static live server and a dynamic Express server to collect and display real time orders on the client-side UI.
- Converted orders into JSON objects and stored them in a MongoDB collection.
- Developed routes in the dynamic server, enabling users to submit ratings that are then stored in a **JSON** file through **fs**.

Virtual World: Java

April 2020 - June 2020

- Contributed to a **Processing** environment by creating entities and implementing a volcanic effect activated by a click.
- Designed a **UML** diagram to track the scope of each class and interface as well as their interactions.

## Solar-Powered Temperature and Humidity Monitor: Arduino

June 2018 - July 2018

Programmed an Arduino Uno R3 and assembled electrical parts to display weather measurements on a LCD monitor.

## DISTINCTIONS

**Insight Series Participant** @ Goldman Sachs: Attended development and exploratory workshops.

June 2020 - August 2020

SWE Experience Certificate @ JP Morgan: Set up a dynamic dashboard for analysis of stock price.

June 2020

Best Beginner's Hack @ SLO Hacks: Developed a laughter-detection game in a four person team.

March 2020

#### PROGRAMMING SKILLS