BILLY CHOI

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EDUCATION

California Polytechnic State University - San Luis Obispo| Bachelor of Science in Computer Science| GPA: 3.7 | Expected June 2023
- **Affiliations:** Cal Poly Scholars, Cal Poly Entrepreneurs, Cal Poly Robotics
- **Relevant Coursework:** Systems Programming, Design and Analysis of Algorithms, Computer Architecture, Project-Based Object-Oriented Programming and Design, Discrete Structures, Linear Analysis, Data Structures, Intro to Computer Organization, Intro to Software Engineering, and Calculus I-IV

RELEVANT EXPERIENCE

Incoming Software Engineering Intern (STEP)   June 2021
Google | Mountain View, CA

Engage Scholar   June 2020 - July 2020
Pinterest | San Francisco, CA
- Strengthened specific goals by interacting with Pinterest staff in informational workshops as 1 of 41 selected students.
- Completed industry-relevant coding challenges and reviewed them with my mentor, improving code comprehension

CA Residency Scholar   May 2020 - July 2020
College Track | Oakland, CA
- Conducted research on Fortune 500 corporations such as Accel, Salesforce, JP Morgan, RingCentral, and Bloomberg.
- Spoke with over 30 professionals from hosting 1-on-1 meetings and attending aforementioned company tours.

Pipeline Engineering Intern   June 2018 - July 2018
East Bay Municipal Utility District | Oakland, CA
- Deducted costs by cost-referencing costs of materials in inventory-related invoices worth over 200,000 dollars.
- Created 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.

PERSONAL PROJECTS

Unix Shell: C   October 2020 - November 2020
- Created a unix shell that simulates how a typical shell acts.
- Implemented pipelines to create IPCs in order to simultaneously execute multiple processes for each command.

Food Ordering and Rating API: JavaScript, HTML, CSS   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 from a URL-assigned database.
- Developed routes in the dynamic server, enabling users to submit ratings that are then stored in a **JSON** file through the **fs** module.

Virtual World: Java   April 2020 - June 2020
- Contributed to a **Processing** environment by creating entities and implementing a volcanic effect activated by a mouse click.
- Developed 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 the temperature and humidity on a LCD monitor.
- Powered this device through attaching a power converter between the battery pack soldered to the solar panel and the monitor.

DISTINCTIONS

Insight Series Participant, Goldman Sachs   June 2020 - August 2020
- Selected out of 5,000 applications to learn more about the culture and divisions at Goldman Sachs.

Software Engineering Experience Certificate, JP Morgan Chase   June 2020
- Set up a dynamic dashboard for analysis of stock price using JP Morgan's Perspective software.

Best Beginner's Hack, SLO Hacks   March 2020
- Awarded for building a laughter-detection game using Google's API in a 4 person team at a 500-person hackathon.

PROGRAMMING SKILLS

Python | Java | C | JavaScript | HTML | CSS |Assembly | MongoDB| Express | Octave