Adam Chois

engineerdragon01@berkeley.edu | (916)–690–1344 | LinkedIn Profile| GitHub Portfolio

EDUCATION

University of California, Berkeley **Expected May 2023**
Bachelors of Science in Bioengineering **GPA 3.6**

Related Coursework: Data Structures and Algorithms, Discrete Math and Probability Theory, Multivariable Calculus, Linear Algebra and Differential Equations, Genetic Design Automation, Molecular and Cellular Computational Biology

TECHNICAL SKILLS

Web Development: HTML & CSS (4 yrs) | JavaScript (3 yrs) | React.js (2 yrs) | Vue.js | Flutter | Bootstrap | Node.js
Programming: Python (4 yrs) | Java (4 yrs) | Go | C++ |Git (3 yrs) | TensorFlow (Keras) | SQL | MATLAB

EXPERIENCE

University of California, Berkeley, Undergraduate Researcher **Sep 2021 – Dec 2022**

- Developed pattern recognition algorithm for genetic fragments and phenotypic variations in Oophaga pumilio
- Created a support vector machine to identify new metabolites based on chemical structure of natural molecules
- Partnered with NASA to build a python library that simulates missions to Mars and a synthetic biomanufactory

Genentech, Software Engineering Intern **May 2022 – Aug 2022**

- Contributed to a clinical protocol automation software tool that has immediate impact on clinical trial efficiency
- Built an API that queries and downloads protocols and improves outdated healthcare document review processes
- Designed and implemented UI for authoring and amending protocols to help med-writers review and edit faster

Amazon, Software Development Engineering Intern (Amazon Propel Program) **Jun 2021 – Aug 2021**

- Utilized internal and external AWS tools for management and security of company data and API metrics
- Developed internal APIs to improve onboarding data transfer efficiency and configuration by about 70%
- Modelled API structure with internal XML and JSON frameworks and wrote team documentation for APIs

Bayer, Quality Control Impurity Analysis/ELISA Intern **Jun 2020 – Sep 2020**

- Drafted financial data spreadsheets and presentations for company executives and project managers
- Reviewed and revised research procedures and updated department's procedural Validation Master Plan
- Received professional training in Good Manufacturing Practices and laboratory Standard Operating Procedures

Google, Student Programmer (Computer Science Summer Institute) **Jul 2019 – Aug 2019**

- Developed a web application for optimizing group task-management accountability using Google App Engine
- Learned about fundamental programming skills through professional development workshops and mentorship
- Gave a project presentation to Google executives about my work and the importance of great communication

PROJECTS

echusOverlook (NASA-sponsored Research Project)

- Developed a Python package used to calculate space mission metrics based on objectives and mission architecture
- Incorporated biological resource data to determine Estimated System Mass for determining inventory allocation

Moodsic ("Best Health Hack" of CalHacks 2022)

- Designed a smart watch widget that used Zepp Health's biosensor API metrics to play music based on stress level
- Heart rate and stress sensors in Zepp's smart watch were used with Spotify to customize a playlist to users' mood

Housing Hound (TreeHacks 2020 Project)

- Created a web-scraper that extracts residence information from housing offer posts on Facebook college pages
- Users can input parameters for the type of housing desired and have relevant data returned quickly and concisely