ANDREW CHEN

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA   **Santa Barbara, CA**
Bachelor of Science, Major in Computer Science   June 2027
- **GPA: 3.81**/4.0 (Dean's Honors, Promise Scholarship)
- **Relevant Coursework**: Data Structures and Algorithms, Application Programming, Object Oriented Programming, Discrete Math, Linear Algebra, Differential Equations

YONSEI UNIVERSITY   **Seoul, South Korea**
Summer Study Abroad Program   June 2024 - Aug 2024
- **Relevant Coursework**: Intro to Machine Learning

PROFESSIONAL EXPERIENCE

PERATON (NASA/JPL)   **Monrovia, CA**
Software Development MAPI Intern   June 2022 - July 2022
- Built a dynamic dashboard web app for viewing data from **NASA's deep space network**.
- Developed an "edit mode" feature enabling users to select, drag, and drop data containers on the dashboard using **HTML**, **JavaScript**, and **Kendo-UI**. Implemented combo box for data containers selection.
- Utilized **JQuery** to handle backend data input.

PROJECTS

Early Stage Diabetes Risk Prediction (github.com/andrewc512/DiabetesPrediction.git)   **July 2024**
- Retrieved and processed patient data from the UCI repository using pandas.
- Trained the classifiers of Adaboost, Bagging, Random Forest, Decision Tree, KNN, and SVM using **Scikit-learn** to predict diabetes in a patient.
- Optimized model performance with Grid Search, achieving **99.23% accuracy** with Random Forest.
- Evaluated models using accuracy, precision, recall, F1 score, and AUC to identify the best predictive model.

Rate My Toilet (devpost.com/software/rate-my-toilet)   **Jan 2024**
- Collaborated in a team of 4 to develop an app for students to rate bathrooms on UCSB campus and help other students identify good bathrooms based on the average rating of all users.
- Implemented bathroom location mapping and rating features and assisted on user authentication features.
- Designed the front-end using **Flutterflow** and integrated the backend with **Firebase** to manage bathroom data.

ACTIVITIES AND EXTRACURRICULARS

CYBERPATRIOT   **Aug 2019 - June 2023**
Competitor
- Competed in one of the nation's largest cyber defense competitions hosted by National Youth Cyber Education Program with **3000+ teams** in the open division.
- Member of team CyberSpace, **top 20** in the nation for platinum tier **semifinals** of open division of cyberpatriot in 2022-2023.
- Resolved vulnerabilities on **Ubuntu** virtual machines and helped operate **Windows** OS virtual machines.

UCSB TAIWANESES AMERICAN STUDENT ASSOCIATION   **Jan 2023 - Present**
Website Development Team
- Redesigned the image gallery page to improve user experience, built the FAQ page, and contributed on the senior appreciation page of a website serving **150+ members**.
- Utilized ReactJS and Tailwind CSS to create and customize web pages.

AEROVATE   **Aug 2019 - May 2023**
President of Headquarters and founder of Taiwan Chapter
- Managed and oversaw 50+ members directing STEM activities/events that provide educational support to students through competitions designed to teach difficult concepts and make them fun.

Member of: CodersSB, UCSB Data Science Club

SKILLS

- Programming Languages: C++, Java, Python, HTML/CSS, JavaScript, TypeScript
- Technologies: React, Next.js, Tailwind CSS, Pandas, Scikit-learn, Matplotlib, git, Unix, aws, Firebase, FlutterFlow
- Certifications: CSWA SOLIDWORKS® in Mechanical Design