James Dinh

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Experience

Catalyze SV, Backend Web Developer   *Jun 2023 – present*
Community-engaging Property Development Organization
- ❖ Improved an interactive map that displays nearby development projects in the Bay Area by condensing information and buttons, helping to connect the public to property developers
- ❖ Developed a sort-through filter menu to easily locate nearby projects which improved user experience

Gavilan College Summer Internship, Physics and Arduino Programming Intern   *Jun – Aug 2022*
Physics and Arduino Programming Internship, advised by Dr. Sewan Fan (Gavilan Physics Dept.)
- ❖ Constructed a water-powered rocket that saves custom Arduino accelerometer circuit data in order to analyze changes in temperature, height, and pressure

Education

Gavilan College, Dual Enrollment with High School   *Aug 2019 – May 2023*
AS Computer Programming, AA Natural Science, AA Liberal Arts
- ❖ **GPA:** 3.95
- ❖ **Relevant Coursework**: C#, C++, Discrete Structures, HTML, Java, Python, Unix/Linux
- ❖ **Clubs**: Computer Science Club (President), Gavilan Engineering and Research Club

Dr. TJ Owens Gilroy Early College Academy   *Aug 2019 – May 2023*
High School Diploma
- ❖ **Unweighted GPA**: 3.95, **Weighted**: 4.72
- ❖ **Honors & Awards**: Outstanding Student Achievement – Math I+, Math II+, SAT 1470, 5 APs
- ❖ **Clubs**: STEM Club, Finance Club, Math Club, Debate Club

Activities

Gilroy Hacks, Co-Founder, Event Director – https://gilroyhacks.com/   *Jan 2022 – Jun 2023*
Student-led High School Hackathon operated under Hack Club Bank, a 501(c)(3) nonprofit
- ❖ Managed event logistics and coordinated outreach for 2 hackathons that served 50+ local students
- ❖ Led 25+ meetings and raised over $2,000 in funding to buy prizes, food, and swag

Gilroy Youth Commission, Youth Commissioner   *Oct 2022 – May 2023*
Youth Advisory Board to Gilroy City Council
- ❖ Actively planned and discussed 5+ youth community events serving 300+ total youth across Gilroy, created a work schedule for the commission, provided feedback and suggestions for future events

Projects

American Sign Language (ASL) Recognition ML App – https://jamesvdinh.github.io/   *Jan – Apr 2023*
MediaPipe, TensorFlow, Python Application that assists Deaf/Hard of Hearing individuals
- ❖ Utilized MediaPipe and TensorFlow to train a model using a dataset of 87,000 images from the NIDCD
- ❖ Implemented a TensorFlow model to recognize ASL letters from a computer webcam

Principal Component Analysis (PCA) Research Project – https://github.com/jamesvdinh/PCA   *Oct – Dec 2021*
Mathematical Concept Explanation, advised by Professor El Ghaoui (UC Berkeley EECS Dept.)
- ❖ Authored a concise article that explains the concept of PCA and examples of real-world applications
- ❖ Created a program that calculated and plotted vector projections by using Python and Matplotlib

Additional Skills & Interests

- ❖ Leadership: Gilroy Hacks Event Director (1.5 yr), GECA Class Secretary (2 yrs), CS Club President (1 yr)
- ❖ Programming/Markup languages: C++, Java, Python, C#, HTML, CSS, JavaScript, React
- ❖ Titles: Recreational Pianist, Web Developer, UI Designer, Web Designer