Dylan Vu

Sacramento, CA • (916) 837-6779 • dylanvu@ucsb.edu • vu-dylan.github.io/ • linkedin.com/in/dylanvu9

EDUCATION:

University of California, Santa Barbara (UCSB)   Expected Graduation: Jun. 2024

- Chemical Engineering (B.S.)   GPA: 3.88
- Honor's College | NEWC-VSB and UCSB Alumni Scholarships
- **Selected Coursework:**

  Intro to C++, Discrete Math, Data Structures, Linear Algebra, Differential Equations, Multivariable Calculus

SELECTED PROJECTS:

GRIP Controller (LA Hacks Submission)   Mar. 2021

- Awarded 1st Place overall in LA Hacks and "Best in Track" for a novel responsive tactile VR controller
- Engineered hand-controller movement and object interactions in Unity using coordinates from MediaPipe
- Designed interactive Unity VR scene and implemented game physics using Unity's built-in physics system

SketchedOut (SacHacks III Hackathon Submission)   Feb. 2021

- Collaborated with 2 other students to create a React whiteboard for users to draw together online
- Implemented backend using Express NodeJS and Socket.IO to connect clients and send whiteboard updates
- Programmed React hooks to initialize client-side sockets and save whiteboard state to transmit to backend

SeenIt (Coders SB React Workshop Project)   Jan. 2021 – Mar. 2021

- Managed team of 4 other students to create a movie-centered social network React web app
- Created React components to display movie information and user-favorited movies

You-tify (SB Hacks VII Hackathon Submission)   Jan. 2020

- Led group of 4 students to create a web app to convert any Spotify playlist to a user's YouTube playlist
- Utilized YouTube Data API on Python to authenticate users via Oauth 2.0 and create YouTube playlists

LEADERSHIP:

Webmaster, UCSB Robotics Club   Jun. 2021 - Present

- Plan, design, code, and maintain club website using React.js
- Maintain and update Node.js "Discord Question of the Day" bot to engage both AIChE and Robotics members

Internal Department Chair, American Society of Chemical Engineers (AIChE)   Oct. 2020 – Jun. 2021

- Initiated a webscraper project to gather availability of any user specified UCSB course using Selenium
- Employed Openpyxl to consolidate and export course availability data to Excel for any student to view, allowing them to better plan and register for their major and general education courses in the future
- Coded Discord bot to engage club members with questions of the day using Node.js, Discord.js, and MongoDB
- Taught SolidWorks workshop and designed curriculum to instruct 20 students on SolidWorks fundamentals

TOOLS & FRAMEWORKS:

- **Programming & Technologies:** JavaScript, Node.js, Python, HTML, CSS, Git/Github, C++, MATLAB, C#, Unity
- **Frameworks & Libraries:** React, Express, Socket.IO, Heroku, Firebase, Selenium, MongoDB, Discord.js