# Daniel Cabrera

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## EDUCATION

**University of California, Irvine**                                                     September 2018 - June 2022
B.S. Software Engineering · GPA: 3.822
Undergraduate Research Opportunity Program Grant Recipient 2021 - 2022

## SKILLS

**Languages:** Python, C/C++/C#, Java, JavaScript, TypeScript, HTML/CSS, Bash, SQL
**Libraries/Frameworks:** React.js, Node.js, REST API, OpenEye, AmberTools, VRTK, AWS CloudFront, AWS S3
**Tools:** Git, Unix/Linux, Unity, Vim, Visual Studio, Slurm, tmux

## EXPERIENCE

**Borracho Saloon**                                                                     August 2022 - Present
Freelance Web Developer
- Leading development on a full stack website for Borracho Saloon in Munds Park, AZ that will be complete with static business information, events displayed using Facebook API, and a merchandise store powered by Stripe

**Mobley Lab UCI** · https://mobleylab.org/                                             June 2020 - June 2022
Undergraduate Researcher
- Researched computer science techniques to improve molecular dynamic simulations and pharmaceutical drugs through advances in force fields and machine learning to more accurately predict biological processes

**Adventure Biofeedback** · https://www.adventurebiofeedback.com/            September 2021 - March 2022
Web Developer Intern
- Designed and developed a full stack web application complete with a user profile, patient dashboard, and homework builder utilized by 150+ speech language pathologists and 300+ patients for patient therapy

**Hughes Media and Design Lab UCI** · https://hughesmedia.bio.uci.edu/patient-zero/       March 2021 - June 2022
Game Developer
- Collaborated with seven student led departments to develop over 50% of Patient Zero, a Virtual Reality game to be utilized by the UCI Biology Department to help students learn concepts in a fun, interactive way

## PROJECTS

**E-Commerce Website**                                                                  March 2022 - June 2022
UCI Informatics
- Constructed a full stack web application capable of fetching and displaying product and order information onto a user interface using RESTful API

**Wiberg Bond Order Interpolation**                                                     April 2021 - June 2022
Mobley Lab
- Led analysis on differences in Wiberg bond order calculations between two major commercial databases, eMolecules and PubChem, and two major conformer toolkits, AmberTools and OpenEye

**DANCE**                                                                               June 2020 - October 2021
Mobley Lab
- Developed customizable fingerprint functions to filter commercial molecule databases and tag molecules with unique data, improving force field parameterization by allowing filtering of specific molecular substructures

## COMMUNITY SERVICE

**Fullerton Free Hoopstars** · https://fullertonfree.com/ministries/specialneeds/         March 2022 - April 2022
- Volunteered weekly to produce games for Hoopstars, a special needs basketball program at Fullerton Free