

Connor Buckley

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EDUCATION

San Diego Mesa College , San Diego, CA	2022-2025
<i>Associate's Degree for Transfer: Computer Science</i>	
San Jose State University , San Jose, CA	2025-2027
<i>Bachelor of Science: Computer Science</i>	

EXPERIENCE

Undergraduate Research Opportunity Program, SJSU

Research Student August 2025- May 2026

- Selected to participate in undergraduate research program supporting student-faculty collaboration
- Engaged in structured workshops to develop research, technical, and presentation skills

San Diego Computer Science Club, SDCCD

Club Member August 2022 - May 2024

- Participated in and helped organize workshops on machine learning, cloud computing, and blockchain
- Networked with industry professionals and attended tech conferences to explore career paths
- Mentored peers in coding, project development, and computer science fundamentals

HackPrinceton, Princeton, NJ

Participant 2023

- Developed a full-stack website enabling users to rent out parking spaces, similar to Airbnb, but for parking
- Frontend JavaScript, HTML/CSS. Backend Java Spring Framework and PostgreSQL to manage user listings, bookings, and authentication

PROJECTS

Construction Business Website *JavaScript, React, Tailwind CSS, Node.js, Express.js, MongoDB*

- Designed and developed a responsive website for a local construction business to showcase services
- Developed secure backend for managing service listings and handling contact form submissions

Fitbit Lock *Python, Raspberry Pi, Fit API*

- Engineered a solenoid lock system that unlocks upon meeting daily fitness goals (distance, steps, or calories) tracked via a Fitbit device.
- Integrated Fitbit API data with Raspberry Pi and relay hardware to control the physical lock mechanism

NASA DE440 Simulator *Python, NumPy, Numba, SciPy, SpiceyPy, Matplotlib*

- Simulated solar system NASA model from scratch using real-world DE440 ephemeris data
- Implemented post-Newtonian gravity and numerical integrators (Euler, RK4) to visualize multi-body orbital motion

CS Club Discord Bot *Java, Spring Boot, Discord4J (Discord API)*

- Automated club operations including meeting scheduling/reminders, attendance tracking, role enforcement, nominations, elections, and polling
- Integrated with persistent storage for reliable task and role management across server restarts

TECHNICAL EXPERIENCE

Languages: Java, Python, JavaScript, HTML/CSS, SQL (PostgreSQL, MongoDB)

Frameworks & Libraries: React, Node.js, Express.js, Tailwind CSS, Spring Boot, Pandas, NumPy, Matplotlib

Dev Tools: Git (Bash), VS Code, IntelliJ IDEA, PyCharm