Connor Buckley

(757) 472-8094 | connorbuckley144@gmail.com | github.com/connorb0531 | connorbuckley.dev

EDUCATION

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

EXPERIENCE

Undergraduate Research Opportunity Program, SJSU August 2025- Present
Research Student
- Selected to participate in an undergraduate research program supporting student-faculty collaboration
- Engaged in structured workshops to develop research, technical, and presentation skills

SJSU Computer Science Club, San Jose September 2025 - Present
Outreach Officer & Dev Team
- Expanded club presence, coordinated alumni donations, and run promotional campaigns
- Member of selective development team building internal tools for event automation and club management
- Attended workshops and networking events with industry professionals to explore career paths

SDDCD Computer Science Club, San Diego August 2022 - May 2024
Club Member
- Built and deployed a Discord bot (Java + Spring Boot + Discord4J) to automate scheduling, polls, and elections
- Stored and managed 200+ members' profiles with persistent database integration, ensuring reliable data access

PROJECTS

Mushroom Vision – CNN-Based Image Classification*, Spring Boot, React, PyTorch, PostgreSQL, Render*
- Trained on a dataset of 10,000+ mushroom images, achieving 92% test accuracy in distinguishing edible vs. poisonous species
- Deployed trained models as REST APIs (Spring Boot + Python) with PostgreSQL persistence, integrated into a full-stack web app for image upload, classification, and results display

NASA DE440 Solar System Simulator *Python, NumPy, Numba, SpiceyPy, Matplotlib*
- Simulated NASA's DE440 ephemeris, reproducing planetary positions within <1 km error vs. JPL reference
- Implemented post-Newtonian gravity corrections and multiple numerical integrators (Euler, RK4, symplectic) to model 10+ bodies over 10,000+ simulated years

Construction Business Website *JavaScript, React, Tailwind CSS, Node.js, Express.js, MongoDB*
- Built and deployed a responsive full-stack website for a local construction company
- Implemented a secure backend with authentication, service management, and form submission handling, integrated with MongoDB for persistent storage

Fitbit Lock *Python, Raspberry Pi, FitBit API*
- Engineered a solenoid lock system that unlocks only when daily fitness goals (steps, distance, or calories) are met, integrating Fitbit API data with Raspberry Pi and relay hardware
- Achieved <200 ms average response time from goal check to lock trigger

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, SQL (PostgreSQL, MongoDB)
Frameworks & Libraries: PyTorch, Scikit-Learn, React, Spring Boot, Pandas, NumPy, Matplotlib
Tools: Git (CLI), GitHub, Jupyter Notebooks, Maven, IntelliJ IDEA, PyCharm, VS Code
Deployment/Cloud: Render, Cloudinary