

XAVIER KUEHN

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TECHNICAL SKILLS

Front End * | React, JavaScript, TypeScript, CSS

Back End | Python, C, C++, PostgreSQL*, Node.js, MongoDB, Authentication*

Developer Tools | Docker*, Git, npm, Agile Methodology

* currently acquiring

EXPERIENCE & PROJECTS

Student Intern | Robotics Systems Laboratory

Feb 2022 - Present

Multi-faceted, cross-disciplinary role to smooth lab operations

C++ | Arduino | Matlab

- Facilitated set up of new computers adhering to lab standards and practices and distributed them to project teams
- Assisting with Graduate and Doctorate projects: prosthetics, remotely operated underwater vehicles
- Reinforcing hard skills of Matlab, C++, and Arduino through on-the-job applications
 - Prosthetic Hand (Arduino) : Low-cost hand prosthetic; implemented an accelerometer to track movements and gestures
 - Vertical Profiler (Arduino, GPS) : Collects sensor readings from various depths; implemented GPS for device tracking
 - Satellite Tracking (NOVA) : Computer system for tracking satellites; antenna rotator connected to NOVA software

Class Registration Python Bot

Python | Selenium | Pandas

- Python bot that automatically registers for classes given list of course numbers in CSV format

Todo Web Application

JavaScript | EJS | MongoDB | Express | Node.js

- Backend implementation of a todo web application with MongoDB and simple UI

JWT Authentication

TypeScript | GraphQL | PostgreSQL | Node.js

- GraphQL API using Apollo, PostgreSQL, and JWT for user authentication

User Registration Web Application

JavaScript | MongoDB | Express | React | Node.js

- User registration implementation using bcrypt for password protection and joi for data validation

REST API

JavaScript | Express | MongoDB | Node.js

- RESTful API with Node.js, Express, and MongoDB that supports CRUD operations

EDUCATION

Santa Clara University | Bachelors of Science

Expected graduation, Jun 2024

Computer Science and Engineering

- Relevant Courses: Object Oriented Programming, Data Structures, Machine Learning, Computer Networks, Embedded Systems, Linear Algebra, Algorithms, Satellite Operations
- Aided doctoral student in setup of test bed for Decabots (10 swarm robots) and OptiTrack 3D sensor system (Feb 2022 – May 2022)
- Tutor peers in classes of my expertise through the Tau Beta Pi Honor Society

AWARDS & RECOGNITION

Tau Beta Pi Engineering Honor Society Member : Invited for being in the top 1/8 of the entire SCU Junior class (2022)

SCU Dean's List : Achieved a grade point average in the top ten percent of the SCU sophomore class (2021)

Patti Grace Smith Fellowship Finalist : One of 30 finalists for internships with leading aerospace companies (2021)