Ryan Siu

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
B.S. in Computer Engineering
Grad. Dec. 2021 | GPA: 3.36

TROY HIGH SCHOOL
Troy Tech
Grad. May 2017 | Fullerton,CA

TECHNICAL SKILLS

PROGRAMMING
Python • C++ • Java •C • MATLAB • SQL • HTML • JavaScript • Verilog

TECHNOLOGIES
React • Firebase • Docker • Git • Ubuntu • VS Code

COURSEWORK

Object Oriented Design
Network Computing
Advanced Applications Programming
Operating Systems
Game Theory
Artificial Intelligence
Distributed Systems
Machine Learning
Fundamentals of Database Systems
Intro. to Cryptography
Mobile Embedded Systems

ACTIVITIES

THETA TAU, PROFESSIONAL ENGINEERING FRATERNITY
Recruitment Team
Dec 2018 - Mar 2021
- Directed venue acquisition for five events during Theta Tau Recruitment week which accommodated 100+ engineering students interested in the fraternity
- Raised over $200 through food concessions for administrative expenses
- Collaborated and negotiated with local businesses to raise an additional $500 through food sales

EXPERIENCE

QA ENGINEERING INTERN | SHIPHAWK
Sep 2021 - Present
- Spearheaded creation of 3+ automated test fixtures using TestCafe to save 10+ hours of manual regression testing per week
- Working in development team of 6 engineers in order to ensure quality at all phases of the software development life cycle
- Merged code for the Automation feature daily to JavaScript code base in an Agile environment

WEBMASTER | SOC 153
Apr 2021 - Jun 2021
- Implemented bug fixes for form creation on the class website consumed by 50+ students/faculty to ensure accurate data collection
- Refactored PHP based front-end to abide by updated ADA guidelines

PROJECTS

HYDROHOMIES | JAVA, FIREBASE
Oct 2021 - Dec 2021
- Developed an Android application that allows users to track their daily water intake
- Integrated Firebase database backend with Java frontend for user authentication and persistent data storage
- Visualized users weekly intake data using MPAndroidChart API

STARSRUS STOCK SYSTEM | JAVA, SWING, SQLITE
May 2021 - Jun 2021
- Created an application in a team of 2 students that simulates a real-life stock brokerage system UI built using Swing
- Utilized JDBC to create and manage SQLite database backend

QAD VIRTUAL ASSISTANT | NLP/ML, REACT, DOCKER
Sept 2020 - March 2021
- AI chat-bot created for quick navigation of QAD's ERP application
- Collaborated in team of 5 in a test-driven approach following git and Agile principle to reduce query times by 67%
- Developed front-end UI on React that utilizes RASA framework and Duckling library for NLP/ML back-end

UCSB COURSESEARCH | JAVA, HTML
Jan 2020 - Mar 2020
- Worked in team of 6 to familiarize with legacy HTML and Java code base
- Implemented a "Weekly View" of one's class schedule integrated with Google API call to support direct importing to Google Calender

ICLICKER POLL | PYTHON, POSTGRESQL
Dec 2019 - Mar 2020
- Developed a live polling web application as an alternative over students using iClickers within a lecture hall for ease of use
- Implemented Django Channels, Redis, and Daphne to allow for asynchronous multi-client authenticated connections
- Designed database relational tables using PostgresQL