Samuel Andrew Bondoc

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Campus Irvine, CA

Home Temecula, CA

Entrance: August 2018

Graduation:

EDUCATION

University of California, Irvine **Bachelor of Science in Computer Engineering**

June 2021 Courses - Data Structures and Algorithms | Database Management | System Software | Processor Hardware

Object-Oriented Programming | Computer Networks | Signal Processing | VLSI | Machine Vision

SKILLS

Coding - C | C++ | Python | SQL | JavaScript | Verilog HTML | CSS | Java | 8051 | MIPS | RISC-V

Tools - GitHub | Xilinx Vivado | Google Apps Script MySQL | SolidWorks | GDB | Valgrind

Interfaces - Git | Windows | Linux | SSH | HTTP | TCP Raspberry Pi | Arduino | Node.js | Koa.js

Design - Paint.NET | Canva | Adobe Premiere Pro Adobe After Effects | Audacity | GIMP

EXPERIENCE

Engineering Course Tutor

August 2020 - June 2021

UCI Office of Access and Inclusion

- Taught programming paradigms to 4 students. [C | 8051 | MIPS | RISC-V]
- Developed memory architecture visualizations for 1 student. [Paint.NET | C]
- Instructed 1 student on circuit analysis techniques.

Media Coordinator

November 2019 - June 2021

IEEE Student Branch at UC Irvine

- Established online presence for the club, increasing engagement by over 40%.
- Designed graphics for, composed, and edited weekly newsletter. [Paint.NET]
- Created and published visual content for advertising on 4 social media accounts. [Premiere Pro | After Effects]
- Defined standardized protocols for new file system with API-style documentation.
- Coordinated with 5 other board members to manage communication with over 30 industry tour participants.
- Supervised 2 embedded systems workshops with 25 students each. [Arduino]

Cybersecurity Workshop Tech Mentor

May 2021

UCI Office of Access and Inclusion

- Facilitated virtual 3-weekend IoT seminar with over 60 participants from colleges across the U.S.
- Diagnosed DHCP setup anomalies for query-filtering DNS server. [Raspberyy Pi | Linux]
- Guided beginner Python users through coding a Caesar cypher. [Python]

Summer Program Assistant

April 2019 - September 2019

UCI Office of Access and Inclusion

- Mentored over 80 students for 8 weeks in hardware/software integration. [Python | SolidWorks]
- Formulated JavaScript curriculum for advanced participants. [GitHub | JavaScript | Premiere Pro]

PROJECTS

Link Budget Diagnostic Utility

- Collaborated in a team of 3 developers with agile-like project framework for 20 weeks.
- Produced MVC GUI for ground-to-satellite RF analysis tool with Cesium REST API. [JavaScript | HTML | CSS]
- Supplied continuous integration/delivery to professional industry lead and oversaw QA throughout SDLC.

IoT Irrigation System

- Designed irrigation prototype with DHT-11 sensor, HW-416 PIR sensor, and I2R LCD. [Raspberry Pi | Python]
- Optimized distribution efficiency protocol with CIMIS database retrieval using FTP and string parsing.

Online Submission DBMS

- Administered social media page receiving 20 entries daily reaching 20,000 users with a team of 3 moderators.
- Implemented visual anti-spam filter with regex generation, increasing engagement by 98%. [JavaScript]
- Deployed spreadsheet organization script, leading to 12.8x publication rate. [Google Apps Script]