Samuel Andrew Bondoc

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EXPERIENCE

Software Quality Assurance Engineer
July 2021 – Present

Toshiba America Business Solutions

- Collaborated with a team of 7 engineers in a 2 to 3-week sprint Agile environment.
- Managed suite of over 1000 test cases for cloud service printing system. **[Azure DevOps Server (TFS)]**
- Coordinated with teams on 2 external companies to solidify product requirements and formulate test cases.
- Developed automation for regression tests on virtual machines. **[C# | SQL | Selenium | Visual Studio | Hyper-V]**
- Built and deployed applications to 3 staging and 6 production environments. **[Azure | AWS | Linux | Git | Bash]**
- Reviewed developer code for embedded printer and full-stack web applications. **[TFS | Python | Java | Elixir]**
- Performed security scan, memory leak, server load, and performance tests. **[OWASP ZAP | JMeter | Selenium]**
- Configured Raspberry Pi for printer fleet diagnostics. **[Raspberry Pi | Linux | Debian]**

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]**

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]**

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**

EDUCATION

University of California, Irvine

Bachelor of Science in Computer Engineering

Courses – **Data Structures and Algorithms | Database Management | System Software | Processor Hardware Object-Oriented Programming | Computer Networks | Signal Processing | VLSI | Machine Vision**

PROJECTS

Social Media Publication Management System

- 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]**

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.

Single-Cycle MIPS Processor HDL Model

- Incrementally implemented core, pipelining, and hazard protection functionalities. **[Verilog]**
- Tested and analyzed power consumption on simulated Kintex-7 FPGA. **[Xilinx Vivado]**