

# Samuel Andrew Bondoc

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## EXPERIENCE

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### 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#** | **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. [ **Raspberry 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

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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

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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

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### 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** ]