MELANIE CABALU

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📱 714-496-2285

📍 Orange County, CA

PROFILE

I offer a background in computer science and aspire to bring my technical expertise to a people-facing role. I'm skilled in problem solving, communication, and organization and I'm passionate about collaborating with others to achieve a shared goal.

EDUCATION

B.S. COMPUTER SCIENCE
CAL POLY POMONA
Graduated June 2017

SKILLS

TECHNICAL

- Python
- Java
- C++
- C#
- SQL
- HTML
- CSS
- XML
- Bash

EXPERIENCE

RELEASE ENGINEER

ESRI | **FEB 2018 to JUL 2020**

- Eliminated 5 hours of daily manual testing by automating test processes using Python and Java to verify the functionality of daily software builds and release candidates
- Developed new features using C# and SQL for an in-house reporting tool, providing development teams across the company with crucial test results on their latest builds
- Analyzed, identified, and triaged software issues, documenting steps and key information for other engineers to easily understand the severity and reproduce the bug

FIRMWARE ENGINEER (CONTRACT)

ZODIAC INFLIGHT INNOVATIONS | **DEC 2017 to JAN 2018**

- Built a sensor device and created firmware for a smart mirror to detect the presence of someone in front of the mirror as a prototype for an in-flight advertising product
- Wrote clear, concise technical documentation for other engineering teams on how to set up the hardware components of the sensor and load its corresponding software

RESEARCH ASSISTANT

CAL POLY POMONA POLYSEC LAB | **JUL 2017 to AUG 2017**

- Researched different network monitoring tools for protecting smart home networks against cybersecurity threats, analyzing the strengths and weaknesses of each approach and ultimately providing a summary for submission to a cybersecurity conference
- Led outreach efforts for NSA-sponsored cybersecurity camp by recruiting 50 high school students

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SKILLS

TOOLS

- Git
- Selenium
- Jenkins
- Jira
- Confluence
- Asana
- Linux
- Adobe Creative Suite
- Microsoft Office

ADDITIONAL

- Technical Writing
- Proposal Writing
- Event Planning
- Task Prioritization
- Critical Thinking
- Product Testing
- Communication
- Listening

EXPERIENCE — CONTINUED

ROTATIONAL INTERN

ZODIAC INFLIGHT INNOVATIONS | JAN 2014 to JUL 2015

- Rotated between Creative and Test Engineering functions
- Designed graphics and videos using Adobe Creative Suite to create engaging content for company-wide internal communications
- Improved a crucial in-flight entertainment product by developing and distributing test plans to isolate and reproduce bugs

VOLUNTEER EXPERIENCE

FOUNDER AND PRESIDENT

SHECODES, AN ACM-W CHAPTER | APR 2015 to JUN 2017

- Founded and chartered sheCodes, a club dedicated to empowering women in computer science, as both an on-campus organization and recognized ACM-W chapter
- Grew club membership by 3x over two years
- Co-authored three grant proposals and raised $19,000 in two quarters, securing sponsorship from Google and NCWIT

LEAD ORGANIZER

FWD CONFERENCE | FEB 2016 to MAY 2016

- Launched Cal Poly Pomona's first ongoing conference to introduce female high school students to computer science and hardware fundamentals; recruited 50 participants from a pool of 80 applicants
- Developed an engaging and beginner-friendly curriculum by showing students how to build a working piano out of bananas
- Oversaw a team of 20 people and delegated tasks across diverse functions including branding, education, public relations, purchasing, and logistics, ensuring a seamless event