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MALCOLM GILMORE

Embedded Systems Engineer

EDUCATION

BACHELOR OF ELECTRICAL ENGINEERING W/ MINOR OF COMPUTER SCIENCE
Morgan State University Baltimore, MD

EMPLOYMENT HISTORY

FIRMWARE VALIDATION ENGINEERING INTERNSHIP May 2019 - Aug 2019
Intel Corporation Folsom CA

- Collaborated with technicians to create a customized GUI application for firmware testing on 3D NAND-based SSDs and SSHDs, optimizing testing efficiency and accuracy.
- Designed and implemented firmware validation tests, uncovering critical bugs and boosting system reliability.
- Developed PowerShell scripts to automate firmware version parsing and downloads, streamlining update processes.

SOFTWARE ENGINEER Apr 2021 - May 2022
Johns Hopkins APL Laurel MD

Developed a web application powered by system dynamics modeling to unify scientists and engineers, facilitating seamless communication and collaboration between disciplines.

APPLICATIONS ENGINEERING INTERNSHIP May 2018 - Oct 2018
Northrop Grumman Corporation

Served as a Systems Administrator and Computer Technician in the company's Enterprise Services division, utilizing BASH scripting and Python to automate server processes and enhance operational efficiency.

EMBEDDED SYSTEMS ASSISTANT May 2019 - Aug 2019
Crosswire Studios Sacramento CA

Collaborated with an escape room startup to develop interactive software for traps and puzzles using the Raspberry Pi platform, enhancing the immersive experience. I worked with them during my intel internship.

QUALITY ASSURANCE TECHNICIAN Jun 2022 - Sep 2022
B2B Mobile Auction Pikesville MD

- Identified and resolved device issues, improving resale quality and customer satisfaction.
- Conducted thorough software testing, identifying and documenting critical bugs. Developed efficient QA processes, enhancing product quality and user satisfaction.

PROJECTS

RESEARCH/PROJECTS

- openDrop: Built a star topology drone delivery network with a dedicated web application capable of delivering payloads to unobstructed locations. Built one drone to test the platform.

  GITHUB FOR PROJECT: https://github.com/thegtabot/DeliveryDrone

- Junior CS Course: Created and taught IT & Networking course for Black Cybersecurity Association.

- LSI Lunar Base Initiative: Worked with JHU APL to build a system dynamics model that establishes relationships between focus groups as well as subsystems within the lunar base.

SKILLS

Linux *(Very Experienced)*, OSX *(Skillful)*, Windows *(Expert)*, Python *(Very Experienced)*, Javascript *(Beginner)*, C++ *(Skillful)*, C *(Beginner)*, Java *(Skillful)*, BASH *(Very Experienced)*, PowerShell *(Experienced)*, CSHELL *(Experienced)*, Computer Networking *(Experienced)*