Abdullahi Ibrahim

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EDUCATION

Wentworth Institute of Technology | Bachelor of Science in Computer Engineering   December 2023

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, SQL, C, JavaScript, HTML, CSS, PHP

Software: MySQL, Chromatic – Storybook, Visual Studio Code, GitHub, Bitbucket, Jira, Quartus, Multisim, Logisim, Pspice, Ubuntu, Linux OS, Parallels, Wireshark, Digital Ocean, Azure DevOps

Technical Skills, Tools and Concepts: Maven/Gradle, JUnit/Unit Testing, Object-Oriented Programming in Java, C++, Python, React, ARM/LEG Assembly, Debugging, Database Design, REST APIs, Version Control (Git/GitHub)

EXPERIENCE

Security + Customer Professional | *Palladion Services* | Boston, MA.   August 2024 – Present
- Managed integrated security system including digital surveillance and access control, maintaining detailed incident documentation
- Coordinated with multiple stakeholders including residents, maintenance staff, and property management to resolve complex issues on multiple properties
- Implemented streamlined reporting system for shift handovers, improving team communication and incident response time by 35 %
- Developed and implemented comprehensive training program for 10+ new team members, reducing onboarding time by 40%

Instrument Testing Engineer Intern| *Quanterix* | Billerica, MA.   October 2023 – February 2024
- Conducted diagnostic tests on optics modules using built-in software, ensuring image focus range met 98%+ accuracy; analyzed compiled image data in Excel for validation
- Performed weekly flush cycles on prototype instruments for upcoming product launch, monitoring 48–72-hour continuous test runs to ensure consistent iteration times and prevent excess water buildup
- Managed structured test tracking using Jira, Confluence, and Azure DevOps, improving cross-team visibility and milestone achievement
- Developed comprehensive project checklist system compliant with ISO 13485 and CFR Part 820 standards, streamlining internal audits and enhancing documentation quality
- Coordinated cross-functional team communications between sustaining, software, and hardware teams, reducing project delivery delays by 30%

Embedded Software Engineer Intern | *Savant Systems* | Hyannis, MA   September 2021 – February 2022
- Conducted network packet analysis using Wireshark, comparing traffic between local Savant servers and remote locations to identify discrepancies in protocol implementation
- Developed and optimized C/C++ codebase for smart home systems within a Linux virtual environment, improving cross-device communication protocols
- Created custom Yocto image implementation, standardizing device information display across the product line
- Collaborated with a 7-member firmware engineering team on smart home systems development, participating in code reviews and weekly planning sessions
- Authored detailed 5-page technical documentation on vendor-neutral protocol implementation, adopted across the entire product line

PROJECTS

Helpdesk Ticketing System | Full Stack Software Application   September 2024 – Present
- Architecting a scalable ticketing system backend using Spring Boot and PostgreSQL, implementing RESTful APIs for ticket management
- Designing and implementing core domain models including User, Ticket, and Comment entities with proper relationships and validation
- Developing authentication system using JWT tokens and role-based access control (RBAC) for different user types
- Implementing automated email notifications for ticket updates using Spring Mail and message queuing
- Creating comprehensive test suite using JUnit and Mockito to ensure 80%+ code coverage