

ZANE KHARITONOV

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SUMMARY

I am a mid-level computer engineer with 3+ years of experience of software development. I am a developer who has worked in startup environments and has worn multiple hats to satisfy the ever-changing needs that are at hand. I follow the software development process, to assure a well-tested and functional final product. I have a high interest in network security, cryptography, decentralization and privacy, and embedded systems software development.

SKILLS & ABILITIES

- Utilize software process tools such as: UML, Git, and JIRA, to document the full software development process.
- Work on an agile team, and follow through on due dates for software implementation
- Proficient with the following programming languages/libraries/tools: C, C++, Java, SQL, Qt, ZMQ, Robot Operating System (ROS), Jenkins, Docker, Javascript, React, AWS, MongoDB

EXPERIENCE

Security Software Developer, Owl Cyber Defense

Sept 21 - Present

- Create tooling to facilitate streamlined development processes using open-source tools like Docker and Jenkins
- Develop secure communication protocols to communicate between untrusted networks
- Created applications that communicated with third party software, and end customer endpoints.
- Fulfilled role of Security Champion to ensure projects are following the Security Development Lifecycle
- Performed Linux system administration tasks such as, creating build systems, running system services, building and deploying containers

Embedded Software Engineer, Clarapath Inc.

March 21 - Sept 21

- Develop driver level code to communicate between device software and third-party physical motors, cameras, lasers, barcode readers, etc...
- Develop algorithm level code that performs necessary machine functions such as driving a motor to perform a specific action based on other motors actions
- Perform system and subsystem level analysis to gather requirements, implement, and test the device software.
- Develop emulation software to develop device software in absence of the system hardware to increase development time efficiency for the device software
- On board and quickly integrate new team members to maximize team member productivity and efficiency
- Write code, and test hardware based on UL standards to achieve UL certification for the product
- Quick paced environment that has constantly changing requirements that need to be fulfilled to further company funding and please board members

Embedded Software Engineer, Abbott Laboratories

April 20-Feb 21

- Develop Windows applications in C++ to test production line hardware
- Develop custom communication protocols and use Serial (RS-232), Wi-Fi (ZMQ, TCP), and Telnet protocols to communicate between production hardware and software applications
- Work independently and part of a team in an Agile Scrum environment
- Develop applications to streamline the production process and save time on the line to cause productivity increases

Lead Embedded Software Developer, MOVISU-FIT

Sep 18-Feb 19

- Developed and maintained Bluetooth code to communicate between mobile device and custom force sensor
- Created user-friendly interfaces for customers use for patient mobile app

- Developed systems for testing capabilities of the embedded sensors and communication to the frontend mobile application
- Developed algorithms to analyze force sensor data from patient input

EDUCATION

University of Pittsburgh, Swanson School of Engineering

Aug 15-Dec 19

- Major: Computer Engineering
- Bachelor of Science in Engineering