NATHAN MANSKE

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EMPLOYMENT

Senior Software Engineer

Salient Systems

- Design and implement features for a server application that records and replays video from security cameras • Collaborate with cross-functional teams to deliver key features such as encrypted playback and a scalable cloud service
- Utilize computer vision libraries to develop video analytics features such as motion and object detection
- Enhance server security by implementing token-based authentication and upgrading OpenSSL to support TLS 1.3
- Reduce the average execution time of encryption and decryption methods by 36x using the Intel IPP library
- Diagnose and resolve critical customer issues by analyzing crash dumps, network captures, and system logs
- Skills: C++, C#, Python, JavaScript, WireShark, RTSP, WebSocket, FFMPEG, OpenCV

Embedded Software Engineer

· Developed software for gateways and network servers in an industrial IoT project that used radio for tracking assets

Carnegie Technologies

- Implemented a message queueing system for efficient communications between gateway devices and the cloud
- Skills: C++, Python, Bash, MQTT, Wireless Networking

Computer Engineer

Erin Condren Design

- Supported the robotics and electronics automation process to optimize production workflows in a factory setting
- Developed embedded systems to increase the speed and accuracy of the order picking and packaging process
- Built a web application to accelerate quality control tasks and display statistics such as the overall pass rate
- Streamlined business solutions using Google Apps Script and custom Slack bots
- Skills: C/C++, Python, JavaScript, Django, SQL, Bash, Heroku, Electron, Embedded Systems Design, PCB Design, I2C

Associate Software Engineer

- Developed and tested new features on Aruba networking devices for various businesses
- Automated tasks to assist in network management and debugging
- Skills: Python, Bash, Wireless Networking

EDUCATION Austin, TX

The University of Texas at Austin

May 2016

- Major: Electrical Engineering, B.S.E. (overall GPA: 3.33)
- Programming Coursework: Algorithms, Software Engineering and Design Lab, Software Design and Implementation
- EE Coursework: Embedded Systems Design Lab, Computer Architecture, Digital Systems Design, Circuit Theory

SKILLS

- Software: C/C++, Python, C#, JavaScript, HTML/CSS, Git, Bash
- Hardware: Embedded Systems Design, PCB Design, Serial Communication Protocols, Wireless Networking

Oct 2017 - Jul 2019

Accenture

Aug 2016 - Oct 2017

Jan 2020 - Present

Aug 2019 - Dec 2019