

Liben Kudama

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Objective

Computer Engineering graduate with hands-on experience in Embedded design, Test automation, and Software development. Aiming to leverage my skills in C++, Python, and system integration to contribute as an Embedded Software Engineer, Software Engineer, Firmware Engineer, or DevOps Engineer.

Skills

Programming: C++, C, C#, Python, JavaScript, Node.js

Web Development: React, React Native, Angular, .NET, HTML, CSS

Embedded Systems: RTOS, FPGA, Raspberry Pi, Embedded Design

Hardware Description Languages: Verilog, VHDL

Networking: Unix/Linux, Network Applications, TCP/UDP protocols

Cloud Computing: AWS, Microsoft Azure, Google Cloud Platform

Cybersecurity: Encryption, Network Security, Risk Management

DevOps & Automation: CI/CD, Docker, Kubernetes, Jenkins

Database Management: MongoDB, Firebase, SQL

AI & Machine Learning: Deep Learning, TensorFlow, Computer Vision

Other: App Development, Automation, Git, SVN

Work History

Test and Integration Engineer | G&D America | Dulles, VA | 07/21 – Present

- Supported telecom companies to test eSIM and SIM operability across GSM, 3G, and 5G networks using TCP/UDP.
- Automated tests using Tang and C++ libraries; improved testing efficiency by 50%.
- Designed tools and software in C# and Python for teams company-wide, enhancing field testing and customer support.
- Addressed customer concerns on cryptography by developing workaround scripts in Python.

Content Developer | Ozmo.inc | Blacksburg, VA | 05/20 – 02/21

- Developed mobile application simulators/emulators and rectified existing code through collaborative efforts.
- Enhanced graphical interfaces using Photoshop.
- Collaboratively reviewed and developed code to improve application reliability.

Education

Bachelor of Science in Computer Engineering

Virginia Polytechnic Institute and State University | Blacksburg, VA | 07/19 – 12/21

- Conducted undergraduate research in deep learning & biomimetic robotics.
- Implemented neural network models to detect handwritten digits and letters using Python and Raspberry Pi.
- Graduated with honors (cum laude).

Associate Degree in General Engineering

Northern Virginia Community College | Annandale, VA | 07/17 – 05/19

- Actively participated in STEM events and competitions, demonstrating technical proficiency.

Projects

- **Mobile Banking Application:** Developed a Qt-based GUI and implemented algorithms in C++.
- **Client/Server Programs:** Used MQTT, C, Python, Microcontroller, and MongoDB.
- **Rover Navigation System:** Designed an autonomous Rover leveraging SPI/UART/I2C interfaces and PID controls to interact with sensors, motors, and encoders.
- **Web Development:** Built responsive websites using React.js and Node.js with Firebase integration for backend and database functionalities.