

Christian Loera

Computer Engineer with experience and education in design, development, and testing. Proficient in C, Go, Python, and Java in backgrounds of RESTful API's and embedded systems, as well as using Linux, PostgreSQL, and Docker.

Experience

Foxconn Industry Internet

BMC Firmware Engineer • Dec, 2019 — Present

Worked in low-level architecture of the Linux Kernel and Devicetree to create a BMC image. Worked on teaching how to use Bitbake for development and debugging for Yocto. Added Redfish support to get and update system info;

- Sensor information
- BMC and BIOS version
- User system control

Created tools to improve build BMC images correctly and efficiently. Wrote documents explaining the architecture and development process.

Astornautics Corporation of America

Software Engineer I • June, 2018 — Dec, 2019

Ensured that there was enough memory space for log files by deleting old and exported data once memory space is limited. Improved on the security and integrity of the file system;

- Ensured that executable files weren't changed for a different file
- Ensured that file permissions weren't changed
- Ensure that no extra files were added to any directory or renamed

Strengthen communication between an aircraft and ground station by using RSA authentication or X.509 Certificates to connect and send data to each other. Wrote software requirements that explain what each part of the code shall do at any given time.

Integer Holding Corporation

Control Engineer Intern • May, 2016 — Jan, 2017

Worked on a robotic arm to implement human motion;

- Designed the robotic arm to spray pacemakers with a protective coat that is safe for the pacemaker and the human body.
- Designed the user interface to be multilingual.
- Robotic arm operates through a user configuration for each pacemaker measurements; where each configuration can be saved and reused.

Improved existing pacemaker threading machines by adding two more motors to thread the wiring together.

Education

University of Wisconsin - Stout

Bachelor of Computer Engineering • 2014 — 2018

Projects

Crypto HODL - Python

• March 2021

Display my portfolio of each cryptocurrency with price/loss, as well as my cryptocurrency history orders that I have made. Using API's to get orders, coin information, and news then storing data into cache. Using cache to read and write

data from Raspberry Pi rather than continuously calling API's for the data.

Vault Depot - Go

• *November 2020*

Store encrypted passwords, username, and email into a database for each website. Command line interface to add, access, and edit information. Database is able to export into a CSV file, and able to import a CSV across different machines. Multiply users can access password manager by creating own account to store individual passwords for each website.

Ledger - Go

• *July 2020*

Designed a general ledger that can be used for general use case. Can be used as a command line tool and as a package. Searches for data in the ledger notebook; date, location of transaction, and details.

Social Links

- **Github:** <https://github.com/loerac/>
 - **LinkedIn:** <https://www.linkedin.com/in/christian-loera>
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