

Christian Loera

(651)675-6993

christian.loera@tuta.io

<https://github.com/loerac/>

<https://www.linkedin.com/in/christian-loera>

SUMMARY

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.

SOFTWARE EMPLOYMENT

BMC Firmware Engineer

Foxconn Industrial Internet

December 2019 - PRESENT

- Work in low-level architecture of the Linux Kernel and Devicetree to create BMC firmware.
- Work on teaching Bitbake for development and debugging for Yocto.
- Add Redfish support to acquire and update system information: sensor information, BMC and BIOS version, and user system control.
- Create tools to improve the build of a BMC firmware.
- Write documents explaining the architecture and development process of building and using the BMC firmware.

Software Engineer I

Astronautics Corporation of America

JUNE 2018 - December 2019

- Ensured that there was enough memory space for log files by deleting exported log files once memory space is limited.
- Improved on the security and integrity of the system:
 - Ensured that executable files weren't changed for a different file.
 - Ensured that file permissions weren't changed.
 - Ensured that no extra files were added to any directory or renamed.
- Strengthened 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 explained what each part of the software shall do at any given time.

EDUCATION

Menomonie, WI

University of Wisconsin - Stout

SEPT 2014 - DEC 2018

Bachelors of Science in Computer Engineering

Treasurer of Institute of Electrical and Electronics Engineers (IEEE) 2016 - 2018

SOFTWARE PROJECTS

Crypto HODL — Python

March 2021

- Displays my portfolio of each cryptocurrency with price/loss, as well as my order history that I have made for each cryptocurrency.
- Uses API's to get orders, coin information, and news then stores data into cache.
- Uses cache to read and write data from Raspberry Pi rather than continuously calling API's for the data.

Vault Depot — Go

November 2020

- Stores multiple 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.
- Multiple users can access the password manager by creating their account to store individual passwords for each website.