

Marcel Fiore

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SUMMARY

Programming Languages: C++, C, Python, JavaScript, Angular(Typescript), Java

Technologies: Linux, Git, GitLab, CI/CD, Docker, REST API, CMake, GTest

Knowledge: Embedded Systems, Scrum (SAFe), Agile, Test Driven Development, Object Oriented Design

WORK EXPERIENCE

CACI International Inc. - Software Engineer T2 Westminster, CO

May 2019 - Aug 2023

- Extended support and improved performance of an LTE decoder library in C++.
- Implemented detailed 3GPP specifications in C to extend LTE features of cellular modem firmware.
- Independently developed a multi-protocol API to test RF hardware on an embedded Linux system.
- Practiced Agile(SAFe) while developing a C++ application to mock LTE mobiles and ensure a reliable testing environment.
- Developed a Python tool to aggregate embedded Linux systems health information displayed on an Angular webapp.
- Achieved successful deliveries while being challenged with minimal external support.
- Additional technologies: Yocto, SDR, Python unittest, Google Protobuf, Gitlab pipelines, Docker.

Apollo Enterprise Imaging - Developer Intern Fort Collins, CO

Aug 2018 - May 2019

- Maintained an Angular web application that stores and organizes patient medical records.
- Queried database server to visualize data into graphs on web application.

Open Water Foundation - Web Developer Intern Fort Collins, CO

Jun 2018 - Aug 2018

- Independently improved screen-size responsiveness of static web pages using CSS and Bootstrap.
- Sought out and documented JavaScript tools to streamline development of future projects.

Fiore & Sons, Inc. - IT Assistant Denver, CO

May 2017 - Aug 2017

- Added network drops and WiFi access points with VLAN traffic isolation.
- Setup and maintained cloud-enabled POE security cameras to ensure coverage of the entire property.

PERSONAL PROJECTS

Rpi Thermostat

Jul 2022 - Jun 2023

- Developed a remotely monitorable and controllable thermostat utilizing a REST API and Apache server.
- Created code structure in Python for system logic.
- Designed flexible environmental sensors by wirelessly networking embedded systems.
- Modeled and 3D printed enclosures for environmental sensors.

Tower Defense Game

Mar 2020 - Feb 2021

- Created with Object Oriented design patterns and written from scratch using Java and the LibGDX graphics library.
- Utilized self-hosted Gitlab runner to automatically deploy release binaries.

Document Comparison Program

Dec 2017

A program to compare documents and search for a document with a similar subject and user-specified reading level.

- Designed using C++, Object Oriented Principles, and the Porter Stemming Algorithm to strip words in different forms down to their root word.
- Analyzed efficiency and prioritized optimizing searching through large files such as full Shakespeare plays.
- Created over a semester for Software Development with C++ class at Colorado State University.

EDUCATION

Colorado State University Fort Collins, CO

Graduated May 2019

Bachelor of Science in Computer Science