Funakoshi Silva

WEBSITE: funakoshisilva.com
GITHUB: github.com/funakoshiapi
LINKEDIN: linkedin.com/in/silvafunakoshi

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TECHNICAL SKILLS

Proficient with:

Languages: Python, C/C++, JavaScript (ES6), Dart, SQL, HTML5, CSS/Sass

Frameworks and Platforms: React, Flutter, Node.js, Django, Linux, Windows, macOS

Other: Digital Logic, Circuit Analysis, AutoCAD Electrical

WORK EXPERIENCE

PLANT3R

SOFTWARE ENGINEER INTERN
June 2020 - Present | Remote

- Development of cross-platform IOS, Android application in flutter
- Rest API flutter programming for virtual assistant connected to Node.js
- Implementation of UI to dart code
- Object-oriented development
- Test-driven development

THE CENTER FOR ANTI-COUNTERFEITING AND PRODUCT PROTECTION

FRONT END ENGINEER
Fall 2019 – Nov 2019 | East Lansing, MI

- Designed user-friendly website using HTML, CSS, and JavaScript
- Developed dynamic and interactive website

FACILITY FOR RARE ISOTOPE BEAMS (FRIB)

ENGINEERING ASSISTANT
Fall 2018 – Feb 2019 | East Lansing, MI

- Wrote YAML script for alarm configuration
- PLC programming, schematics in AutoCAD

EDUCATION

MICHIGAN STATE UNIVERSITY
BACHELOR OF SCIENCE
Major: Computer Engineering
Graduated May 2020 | East Lansing, MI

Relevant courses: Software Design | Algorithms & Data Struc | Computer Systems | Digital Logic

TECHNICAL PROJECTS

AUTOMATED WINCH FOR UNDERWATER SENSING IN PYTHON
Spring 2020 | East Lansing, MI

- Designed graphical user interface with tkinter library
- Programmed logic of winch to adjust the release of cabled sensor underwater based on desired depth
- Wrote unit test to prevent system from short circuiting

IMAGE PROCESSING IN C++
Fall 2020 | East Lansing, MI

- Implemented stenography and cryptography to embed a hidden secret message on the image.
- Used 2D vectors and struts/classes to work with PGM files
- Created blur, emboss and sharpening image features by adding multiple operations on the original PGM matrix

INSTAGRAM LIKER IN JAVASCRIPT
Aug 2020 | East Lansing, MI

- Chrome application that automate instagram likes,
- The application likes photos on the behalf of user account and pick the hashtags to follow

AQUARIUM DESKTOP APP IN C++
Spring 2020 | East Lansing, MI

- Built C++ application that allows to create an aquarium, visualize and interact with fishes
- Used Microsoft Foundation Classes (MFC)
- Created test cases to prove development concept

Human Resources

Dear Recruiting Manager,

I want to express my deep interest in entering a position as a software engineer for your company. I am a recent graduate with extensive education in software design and application development. I believe I am a strong candidate for a position at your company. I am a fast learner with strong time management and multi-tasking skills. Strong work ethic in a team or individual settings to drive product success and process efficiency. Strong troubleshooting and problem-solving skills with an analytical mindset. Fluent in Portuguese and English with excellent communication and interpersonal skills. My maturity, practical experience, and attention to detail make me confident that I would be a beneficial addition to your team.

I have a strong interest in software development and web technologies. I am currently volunteering as a software engineer and helping to create and integrate virtual assistant API to a cross-platform flutter mobile application for IOS and Android systems.

I have worked on software design projects in C++, and I am fascinated with algorithms, API's, and web technologies. In my free time, I enjoy building JavaScript apps and merge them on google chrome.

On my final design project, I worked on developing an automated winch system for underwater exploration. I designed the graphical user interface, using Tkinter toolkit and used Python to write the logic of the winch to adjust the release of the cabled sensor underwater based on desired depth. I enjoyed and learn more about developing safe systems by writing unit tests to prevent system short circuit, that could be caused by relays connected to the winch by a micro-controller and portable power source.

I am proficient with C\C++ programming, Python, and circuit analysis. I have worked directly with PLCs and other electrical systems for a year at the Facility for Rare Isotope Beams at Michigan State.

I have great familiarity with using Linux terminal commands, computer networks, protocols, and troubleshooting Linux/ Unix and Windows systems.

Please do not hesitate to contact me by phone or email for any reason.

Thank you for your time and consideration,

Funakoshi Silva
Computer Engineer
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