

MAIRO PAUL RUFUS

Computer Science Engineer

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Mairo_Rufus

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RMPR

EXPERIENCE

Devops Intern

Digital House International

February 2020 - July 2020 Douala, Cameroon

- Built a CI/CD pipeline for the main product of the company
- Improved deployment time from 2 hours to a couple of minutes by using containers (Docker, Podman) and Bash scripts
- Reduced the number of merge conflicts by setting up a Jenkins server on top of the GitFlow branching model.
- Detected an undersized server before deploying to production while assessing capacity planning, avoiding a potential crash
- Managed some hosted services on AWS (Amazon EC2)

Google Summer of Code Student

Samba

May 2019 - August 2019 Remote, USA

- Worked on improving smbcmp the capture diff tool used to diagnose SMB protocol issues
- Improved diffs visualization by using the PDML output instead of the plain text output of Wireshark making them more human-readable
- Made the program more modular by adding ways to let users add ignore rules for packets
- Designed and implemented a GUI with wxPython, ported the software to Windows and documented the process to make on-boarding of new contributors easier

Web Developer Intern

Technipedia

June 2018 - August 2018 Yaounde, Cameroon

- Implemented Cosine-similarity algorithm for item-based collaborative filtering to make quick recommendations with Python and Numpy
- Redesigned and implemented the UI of the company's website, adopting the material design guidelines to improve the UX using Django and Material Design for Bootstrap

AI Family Challenge Coach

Caysti

January 2017 - June 2017 Yaounde, Cameroon

- Implemented a linear regression model to classify objects in two classes named by the user, for the children and their families to train and solve a problem around them
- Organized AI lessons with provided educative material

ACHIEVEMENTS

- Top 0.05% Stack Overflow user in Cameroon
- Quora top writer
- Among the first 70,000 Hacktoberfest 2019 prize recipients
- Google Mobile Web Specialist Certification
- A Beginner's Guide to Linux Kernel Development Certification

EDUCATION

Master's Degree, CSE

National Advanced School of Engineering of Yaounde

September 2015 - October 2020

- Graduated with High Honours
- Coursework:** Algorithms, Operating Systems, AI, Computer Networks, Databases, System Programming, Web Programming
- Acceptance rate:** 3.6% (180 selected over 5000+ applicants)

PROJECTS

Atbswp - Macro recorder

- Developed a multi-platform app that allows users to record their mouse and keyboard actions and reproduce them identically as many times as they want.
- Improved soft skills by creating and managing a community of 50+ members around the tool.
- Engaged users worldwide by adding internationalization and Open Source Advertising
- Set up a matrix workflow with Github actions that simultaneously test across multiple versions of Python

Molux - Web app

- Co-developed an online multiplayer game where each player tries to form the largest number of words using the letters provided
- Worked with NodeJS and Mongo DB for the back-end to store and retrieve various data

Psh - Basic Unix Shell

- Developed a basic working shell in C to understand how things work under the hood
- Experimented with Readme Driven Development

Voltaire - Telegram bot

- Developed a self-hosted Whatsapp-Telegram bridge in Python to enable full-duplex communication between two groups, one each platform
- Improved exception handling skills and debugging skills by working with various APIs and Python modules.

SKILLS

Languages: Bash, C, Java, JS, Python, Rust

Databases: MySQL, MariaDB

Frameworks: Django, Flask, wxPython

Tools: Git, GDB, Ansible, Linux, Nginx