Kael Soares Augusto

kaelsoaresaugusto@gmail.com | t.me/KaelSA | https://kaelsa.dwctor.com/Computer Science | Software Engineering | Belo Horizonte, Minas Gerais, Brazil

EDUCATION

UFMG UNIVERSITY

BS IN COMPUTER SCIENCE Jan 2020 - Expected Dec 2024 Belo Horizonte, Brazil Avg. GPA: 3.8/4.0 (95%)

COLEGIO SANTA MARIA - CE

HIGHSCHOOL GRADUATE Jan 2017 - Dec 2019 Belo Horizonte, Brazil

LINKS

Github:// Dwctor YouTube:// Dwctor LinkedIn:// Kael-Soares-Augusto Personal site:// kaelsa.dwctor.com

COURSEWORK

GRADUATE

Compilers and Languages
Static Program Analysis
Agile Methodologies
Data Structures
Algorithms 1 & 2
Cloud Computing
Computer Networks
Operating Systems
Parallel and Distributed Systems
Machine Learning
Formal Methods
Fundamentals of CS Theory

PERSONAL STUDY

Self-Hosting Cloud Services
(NextCloud Docker (Portainer) on Debian)
Keyboard Circuit Design
(Kaly42 Split Ergonomic Keyboard)
LinuxOS Install, Maintenance and Usage
(Ubuntu, Mint, Zorin-OS, Endeavour, Arch, Debian,
Pop-OS, Manjaro, Nobara, Puppy Linux, ...)
Unix Tools and Scripting
(ssh, Bash, Terminal editors vim/nano, Cronjob, ...)

SKILLS

PROGRAMMING

Experienced:

C • C++ • Python • Elixir Bash • Git/Github • Makefile Intermediate:

eBPF • SML • Assembly • SQL Familiar:

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VHDL • Verilog • MySQL

WORK FXPERIENCE

COMPILERS LABORATORY | SOFTWARE ENGINEER | HONEY-POTION

Sep 2022 - Present | Belo Horizonte, MG Scholarship Oriented by Prof. Fernando.

Part of the team that develops Honey-Potion for LAC. An open source project that translates Elixir to eBPF.

- Refactored Codebase with Good OO Practices.
- Organized clear and achievable tasks and goals which accelerated it's development in more than 2x.
- Implementation of an automatic compilation pipeline from the eBPF backend code to binary.
- Implementation of Liveness and Dead variable analyses for linear programs.
- Filmed clear and concise videos for the project ([LAC-DCC] Honey Potion Guides and Showcases English) in YouTube (Over a thousand cumulative views).

LANGUAGES

ENGLISH - FLUENT | NATIVE SPEAKER SINCE BIRTH PORTUGUESE - FLUENT | NATIVE SPEAKER SINCE BIRTH SPANISH - BEGINNER | LEARNT FROM HIGH-SCHOOL

PROJECTS

KALY42 | OPEN SOURCE KEYBOARD

May 2023 - Jul 2023 | Belo Horizonte, MG

Planned, Designed and Built a Split Ergonomic Columnar keyboard with 42 keys. Available in GitHub (Photos and Project) and YouTube (Introduction and Story). I learnt about Circuit Design, Firmware and using Open Source Software (QMK).

PERSONAL CLOUD SERVER | USING LINUX & OLD HARDWARE

Jan 2023 | Belo Horizonte, MG

Set up Open Media Vault (Open Source NAS) with Portainer (Docker), Nextcloud (Cloud Service) and DuckDNS (Free Dynamic DNS), which taught me more about servers, Linux, managing firewalls, opening network ports, shh and much more.

AWARDS

2019 Gold Medalist Brazilian Olympiad of Science

2019 Gold Medalist Brazilian Olympiad of Astronomy and Astronautics

AREAS OF INTEREST

I am interested in any new opportunity in the Computer Science Field! These are the ones I have explored and enjoyed so far!:

SOFTWARE ENGINEER | Low-level Programming and Scripting CLOUD COMPUTING | Sysadmin, Servers and Software OPERATING SYSTEMS | CLI Tools, Compatibility and Testing COMPILERS | Code Optimization and Translation

REFERENCES

PROF. FERNANDO MAGNO QUINTÃO PEREIRA |

PRONESTO@GMAIL.COM

Ph. D, Professor, at Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Brazil