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PROJECTS

gateau

Cookies format converter, from browsers (including Chromium encrypted ones) to Netscape and httpie formats.

🔗 <https://github.com/musikid/gateau>

Rust, SQLite

chwitter

Social networking website inspired by Twitter's design, which replicates some of its functionalities like message posting, profile management or likes.

🔗 <https://musikid.github.io/chwitter>

React, Express, MongoDB, Docker, fly.io

Howdy PAM module's rewrite

Rewrite of the pam-python based PAM module into a native C++ one, which asynchronously performs face comparison while waiting for the password.

🔗 <https://github.com/boltgolt/howdy/pull/484>

C++, Linux, PAM

Fancy - acpi_ec

Software which allows modifying laptop fan speed, by writing to the ACPI embeddeed controller. Includes a service daemon for EC reading/writing controlled through D-Bus, and a CLI to send commands.

Created along with acpi_ec, a kernel module based on ec_sys.c which provides an interface between the ACPI embedded controller and the userspace.

🔗 <https://musikid.github.io/fancy>

Rust, D-Bus, Linux, C, Kernel module

VOLUNTEER EXPERIENCE

Keur Kamer (Jul 2022 - Sep 2022)
Workshop animator

Sayafdine Said

Software engineer

SKILLS

Languages

Python, Rust, Go, C, TypeScript, HTML/CSS

Technologies

Kubernetes, Docker, React, Vue, PostgreSQL, MongoDB, Express, RabbitMQ, Celery, Prometheus, Linux

WORK EXPERIENCE

Société Générale

DevOps Cloud Engineer

(Sep 2022 - Present)

Maintained a PaaS in **Python** based on **Kubernetes** with a **Vue** web interface, used by other teams of the Private Cloud Platform

- Improved monitoring data quantity by 90% thanks to the more detailed logging system
- Improved health checks metrics accuracy by 75% with a service based on a sliding window with data retrieved from the previously implemented logging system
- Enhanced onboarding process with an intuitive documentation

Google Summer of Code | FreeBSD

Contributor

(May 2022 - Sep 2022)

Rewrote `~pjdftstest`, a test suite for file systems used by **FreeBSD** on UFS and ZFS, in **Rust** to improve performance and usability

- Reduced execution time by 99% thanks to less abstraction levels to the kernel and configurable sleep time
- Increased configurability by introducing a configuration file read by the test runner to customize the suite behavior
- Added test isolation for better privileges management and test selection

🔗 <https://musikid.github.io/blog/rewrite-pjdftstest/>

EDUCATION

Sorbonne Université, Paris

Master, Computer Science - Networks (Apprenticeship)

(Sep 2022 - Present)

Network architecture, Mobile networks, Telecommunications, Cloud computing

Sorbonne Université, Paris

Bachelor, Computer Science

(Sep 2019 - Jun 2022)

With Honors

Data structures, Concurrent programming, Web development, Introduction to bioinformatics, Basis of operating systems, Networks

INTERESTS

Open Source contributions

Music

Guitar, Piano

Basketball