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Skills

- **Programming Languages:** Rust, C, Bash, Python, Golang, TypeScript, SQL
- **Frameworks and Tools:** Linux, Debian/Ubuntu Packaging (Keen to learn and contribute), Docker, Kubernetes, Git, Systemd, Libevdev, CI/CD (Gitlab CI/CD, Github CI/CD), AWS, Postgres
- **Soft skills:** Passionate & Curious, Accountable & Self-motivated, Articulate Communication, Teamwork & Collaboration, Problem-solving, Adaptable & Flexible, Enterprising & Thoughtful, Attention to Detail
- **Languages:** Spanish (Native), English (C1 / Proficient)

Summary

Software Developer with more than 4 years of experience, renowned for delivering high-quality solutions and a strong command of complex technical concepts. Possesses a proven track record of successful implementations, drawing on extensive business knowledge. A strong communicator and lifelong learner, passionate about open-source, and adept at collaborating with diverse, US-based cross-functional teams.

Experience

Software Engineer   **EPAM**   **Dec 2023 - Present**
- Developed and maintained robust CI/CD pipelines using GitLab and GitHub to ensure efficient software delivery and continuous integration.
- Engineered backend services for GCP Vertex AI, including logic for query translation and pipeline validation.
- Built tooling and automation scripts that accelerated and optimized the entire Machine Learning model lifecycle (development, training, deployment), significantly contributing to MLOps maturity.

Full Stack Software Engineer   **Vertical tech S.A.S**   **Apr 2021 - Dec 2023**
- Led design, and development of over 50 features, focusing on modularity, maintainability, and system performance.
- Optimized backend response performance by 40% through advanced SQL query tuning and ORM improvements.
- Actively participated in rigorous code reviews to ensure high standards of code quality and system efficiency.
- Developed system scripts (Bash, Python) data import, and operational automation, saving over 7+ hours per week.
- Designed and implemented a sophisticated parsing system with a custom DSL for transforming unstructured text into structured data.

Software Engineering Tutor   **Universidad Nacional de Colombia**   **Oct 2019 - Jan 2021**
- Created comprehensive automated grading scripts using Bash and Python, enhancing evaluation efficiency and consistency.
- Instructed and evaluated over 150 students in Linux fundamentals, Operating Systems, and Networking, fostering deep understanding of core system concepts.

Projects

Raw Image Development Pipeline   github.com/DavRack/imops
- Authored 'imops', an open-source, high performance tool writen in pure in Rust to develop raw images.
- Implemented a comprehensive color management system leveraging industry-standard workflows and color space transformations
- Developed a custom tone mapping function to achieve a film-based color response
- Utilized Rayon, Clap, and Toml crates to deliver a fast, reproducible user experience via configurable processing

Low Level Keyboard Re-programming (skr)   github.com/DavRack/skr
- Authored 'skr', an open-source, low-level Linux tool in Rust (migrated from C/Python) for advanced keyboard event remapping.
- Utilized Libevdev for direct hardware event interaction and Systemd for service management.
- Demonstrates expertise in Rust, C, systems programming, Linux internals, and open-source contribution.

Syntax-aware Code Finder (scf)   github.com/DavRack/scf
- Developed 'scf', an open-source CLI tool in Rust for advanced, syntax-aware code searching within projects.
- Integrated external crates such as Clap (CLI argument parsing) and Tree-sitter (parsing), showcasing practical Rust application development and tooling creation.
- Fully open-source, emphasizing commitment to the developer community.

Education

Bachelor of Engineering in Software Engineering   **Universidad Nacional de Colombia**   **Feb 2016 - Apr 2023**

✓ Operating Systems	✓ Computer architecture	✓ Algorithms	✓ Data structures
✓ Design patters	✓ Software engineering	✓ Artificial intelligence	✓ Object Oriented Programming
✓ Functional Programming	✓ Relational data bases	✓ Non-Relational data-bases	✓ Computer vision

Certifications

- EF SET English Certificate 80/100 (C2 Proficient)
- English course for developers