

Javier López

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SUMMARY

Experienced software engineer with 5 years of hands-on expertise in building and improving software systems. I have a strong background in transforming complex monolithic applications into modular architectures, improving development processes, and enhancing user experiences. Skilled in multiple languages, AWS, CI/CD, data-driven problem-solving, and much more!

EXPERIENCE

Team Lead

[Partido MIRA](#)

December 2022 — Present, Bogotá, Colombia

- Led the critical transformation of a set of troubled, monolithic applications into a modern, scalable, modular software architecture which sped up the development process.
- Managed and planned efficient infrastructure migration to AWS, introduced CI/CD, and developed data pipelines to resolve performance, reliability and scalability issues, increasing user satisfaction.
- Introduced containerization, automated testing, automated backups restore, zero-downtime deployment (ECS) and monitoring the fully automated stack cut change.
- Designed and optimized data models, database schemas, data integrity and flows.
- Integrated with external services (WhatsApp, SMS, email) using queues.
- Developed complementary modern applications using TypeScript and asynchronous programming.
- Implemented data analysis and visualization using Python, Pandas, and Apache Superset.
- Managed infrastructure using IAC with Terraform and various AWS services.
- Contributed to the organization goal with technology and ideas which were highly successful.

Software Developer

[Partido MIRA](#)

June 2022 – December 2022, Bogotá, Colombia

- Developed and deployed interactive web applications for Partido MIRA, leveraging PHP and MySQL, which enhanced user engagement and streamlined data management processes by integrating real-time updates.
- Developed a mobile application using React Native and Node.js (backend).
- Earned the trust of peers and boss to be promoted to team lead.

Software Developer

Open Source Projects

January 2021 – June 2022, Panama, Panama

- Contributed to large-scale open-source projects, Neovim being a widely adopted editor used by thousands of developers worldwide.
- Collaborated asynchronously with a global team of ~20 contributors to enhance a complex codebase spanning C, Lua, Bash and Vim Script, maintaining high standards for code quality and rigorous approval processes.
- Designed and implemented APIs, helped improve the plugin subsystems, and integration tools to improve usability, scalability, and performance for a diverse user base.
- Optimized development workflows by enhancing continuous integration pipelines and ensuring maintainable, scalable code.
- Fostered community growth by mentoring contributors, reviewing pull requests, and promoting inclusive collaboration practices.
- Developed solutions to enable seamless integration and communication between platforms (halinuxcompanion), leveraging asynchronous programming techniques in Python and other technologies.

Software Developer

Self-employed

June 2020–December 2020, Panama, Panama

- Designed and developed custom e-commerce solutions from scratch, tailored to meet specific client needs.
- Created scripts to efficiently load and manage large product catalogs, streamlining inventory management processes.
- Implemented secure payment gateway integrations from scratch (Wompi), ensuring smooth and safe transactions for customers.
- Built responsive and user-friendly interfaces, enhancing the overall shopping experience across various devices.
- Collaborated with cross-functional teams to gather requirements and deliver timely e-commerce solutions.

Software Developer

Raul Javier López SAS

January 2019–January 2020, Cartagena, Colombia

- Developed and maintained software for tracking earthworks operations, focusing on dump truck material movement, distance calculations, and pricing.
- Implemented integration with external GPS tracking system to compare actual truck routes with planned routes, identifying inefficiencies and cost-saving opportunities.
- Created a dashboard for monitoring key performance indicators, enabling data-driven decision-making for project managers.
- Optimized database queries and implemented caching mechanisms to enhance application performance and user experience.
- Implemented automated testing protocols to improve code quality and reduce post-release issues.

Project Manager

Constructora FJO SAS & Raul Javier López SAS

January 2016–January 2020, Cartagena, Colombia

- Directed the construction of a housing compound (500 units) and multiple road projects.
- Teams of up to 50 people.

Auxiliary Engineer in Hydraulics and Infrastructure

University of Cartagena

January 2016–June 2016, Cartagena, Colombia

- Collaborated on designing an environmental quality smart monitoring system for the city of Cartagena.
- Contributed to smart monitoring system design for Cartagena.

EDUCATION

Masters Software Engineering

University of the Andes • Bogotá, Colombia • 2024 • 4.65

Specialization on Terrestrial Roads

University of Cartagena • Cartagena, Colombia • 2019

- How to design, build, maintain roads.

Civil Engineering

University of Cartagena • Cartagena, Colombia • 2016 • 3.98

PROJECTS

Neovim Contributions

github.com/neovim/neovim • September 2021 – Present

- Helped the Neovim project by contributing to the RPC API, continuous integration, and plugin subsystem.
- Participated in design decisions for the project API in Lua and C.
- Part of the Neovim organization in GitHub.

Home Assistant Linux Companion

github.com/muniter/halinuxcompanion • November 2021 - Present

- Created the project which organically attracted users and contributors, currently 60 stars and 9 contributors.
- Developed asynchronous programming tools for integrating Home Assistant with Linux desktop systems.
- Implemented HTTP and D-Bus communication using async Python.

E2E Testing, VRT, Data Validation

Universidad de los Andes • github.com/muniter/e2e_testing_assignment • May 2022 – May 2022

- Comprehensive testing project using browser automation APIs, BDD tools, and CI integration.
- Implemented system-level testing using Playwright and Gherkin.
- Set up CI pipeline and documentation for the testing framework.

COURSEWORK

Data Science For All (DS4A)

Correlation One • Teamwork, Data Science, Data Analysis • 2022

Software Development

Universidad del Norte • Teamwork, Software Development • 2021

- Developed backends, frontend and mobile applications in multiple languages: Python, JavaScript, Java, etc.

SKILLS

Programming Languages: Python, PHP, JavaScript, TypeScript, Lua, C, Bash/Shell

Backend Frameworks & Tools: Fastify, tRPC, Hono, Prisma, Yii, Laravel, Flask, Django, FastAPI, Express, NestJS, RESTful APIs, Microservices

Database Systems & Data Tools: SQL, MySQL, PostgreSQL, SQLite, MongoDB, Redis, Relational Databases, Complex Queries, Joins, CTEs, Window Functions, ORM, Caching Strategies, Polars, Pandas, Jupyter Notebooks

Frontend Frameworks & Tools: React, Angular, HTMX, Vite, jQuery, Bootstrap, Tailwind CSS

Cloud & DevOps: AWS, Docker, CI/CD, Terraform, GitHub Actions, Kubernetes, AWS CDK, Virtual Machines, Azure, Ansible

Other: Git, Linux, GitHub, Productivity Tools, IDE, Neovim, Vim, Vscode, Analytical Problem Solving Skills, Troubleshooting, Debugging, Software Architecture, Design Patterns, SOLID, Agile, Software Integration.