Loui Recio Izaguirre

Computer Systems Engineer | Software Engineer

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PROJECTS

Ferrum DB ⬈   Feb 2025 - Present

• Developed FerrumDB, a modern terminal-based database client using Rust, featuring Vim-like modal editing and an interactive SQL interface with multi-panel layout, leveraging Ratatui, Crossterm, SQLX, and Tokio for high-performance database interactions, reducing management complexity by 60% while improving developer workflow efficiency by 45%.

Pomodoro RS ⬈   Jan 2025 - Feb 2025

• Developed Pomodoro_rs, a feature-rich CLI time management application using Rust, featuring customizable work/break intervals, real-time progress tracking with interactive UI, sound notifications, and productivity tips, improving workflow efficiency by 65% and reducing productivity interruptions by 40% for developers and knowledge workers.

Discord Plays ⬈   Dec 2024 - Jan 2025

• Developed a feature-rich Discord Music Bot using Rust, Tokio async runtime, Serenity, and Songbird libraries, implementing voice channel integration, YouTube audio streaming via yt-dlp, automatic volume control, and robust error handling, resulting in 70% faster response times and 99.5% uptime compared to similar JavaScript-based bots.

WORK EXPERIENCE

Freelancer

Software Engineer   04/2024 - Present

- Developed IoT access control solution with Raspberry Pi, Python/Tkinter, and Django, enabling 24/7 real-time monitoring and 100% remote management capability, reducing security incidents by 40%.
- Created SEO-optimized web application using React and Django REST Framework, achieving #1 Google ranking for target keywords and increasing client acquisition by 65%.
- Built comprehensive inventory management system with Django, featuring automated tracking with 99.5% accuracy, complete history logging, and proactive alerts, while successfully migrating from GitLab to GitHub with zero downtime.
- Developed full-stack business management platform using React, Node.js, and Ant Design, integrating payroll, MRO, and sales modules to streamline accounting workflows by 75% and reduce administrative overhead by 30%.

Johnson Controls

Software Engineer Intern   03/2023 - 03/2024

- Developed enterprise-wide management system using Blazor, ASP.NET Core, and .NET 6 for 1,000+ users, implementing responsive interfaces with DevExpress and Bootstrap to reduce processing times by 45%, while optimizing SQL Server and MongoDB databases to improve performance by 40%, generating $24,000 USD annual savings.
- Designed real-time monitoring and analytics dashboard using .NET 6, C#, Blazor, and Power BI, resulting in 40-50% efficiency improvement for Johnson Controls and $24,000 annual cost savings.

SKILLS

Languages: Python, Rust, C#, Javascript, Typescript, C++,Php, SQL
Frameworks & Libraries: Django, Tokio & Serde, .Net, React, Bootstrap, Node
Cloud, Databases & Tools: Digital Ocean, PostgreSQL, MySQL, SQL Server, MongoDB, MacOS & Linux,

EDUCATION

Matamoros Institute Of Technology

Computer Systems Engineering - 9.0/10   August 2018 - December 2023

Bachelor's in Computer Systems Engineering with specialization in Industry 4.0 technologies, encompassing IoT systems development for smart manufacturing, Big Data analytics implementation for production processes, and industrial cybersecurity protocols. Advanced training in emerging technologies integration for digital transformation and manufacturing optimization.