

Rodrigo Ramirez

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WORK EXPERIENCE

Microsoft

Seattle, WA

Software Engineer

October 2023 - Present

- Developed and deployed a Kernel Panic detection mechanism for high-performance computing hardware (H100, H200, MI300X) running Linux, addressing kernel panics affecting ~3% of the fleet of servers, which reduced manual recovery time and improved system uptime.
- Improved error attribution on HPC servers within the diagnostics platform by enhancing signal processing and refining algorithms, reducing misattribution errors by 15% and significantly increasing the accuracy and efficiency of root cause analysis for system issues.
- Enhanced monitoring and led incident management as the Designated Responsible Individual (DRI), streamlining issue resolution for new server models in the diagnostics platform, reducing mean time to resolution (MTTR), and implementing software-driven improvements to prevent recurrence and enhance system reliability.

Belcorp

Lima, Peru

Software Engineer Intern

August 2021 – January 2022

- Optimized complex SQL queries for data retrieval and reporting, improving performance by 10% and ensuring faster, more efficient data processing across large datasets.
- Developed and automated reporting workflows using Robotic Process Automation (RPA) to streamline weekly report generation, reducing manual effort by 50% and improving operational efficiency.
- Collaborated with cross-functional teams to troubleshoot and debug web and mobile applications, identifying and resolving technical issues to improve functionality and ensure a seamless user experience.

Meta

Remote

Tech Mentorship Program

Nov 2021 – Feb 2022

- Collaborated with engineers to deepen understanding of data structures and algorithms, enhancing technical problem-solving skills.
- Developed communication and industry insights through mentorship, gaining valuable perspectives from experienced professionals.

PROJECTS

Pokemon Search Engine

[Website](#), [GitHub](#)

- Developed a front-end application using React to search Pokémon, implementing state management with React hooks and optimizing performance through lazy loading and debounced API calls.

Online Store

[Website](#), [GitHub](#)

- Built a front-end online shopping platform with Vue.js, leveraging Vuex for state management of Cart and Wishlist, ensuring persistent state across page refreshes; utilized FakeStoreAPI to dynamically fetch product data, and applied Vue Router for seamless navigation and reusable components for a modular architecture.

EDUCATION

Universidad Peruana de Ciencias Aplicadas

Lima, Peru

BS in Software Engineering (GPA: 3.5)

Graduation Date: December 2022

- Organizations: Honors Program, Competitive Programming Team, Coaching/Mentorship Program

University of Hertfordshire

Hatfield, England

Study Abroad

2020

- Coursework: Web Services, Machine Learning, Quantum Computing, Software Quality

HONORS & AWARDS

[Top 39 ACM ICPC South America Finals](#)

November 2019

[Global Top 194 IEEXTREME 13.0](#)

October 2019

SKILLS & INTERESTS

Skills: C#, Python, JavaScript, React, SQL, GIT

Interests: Competitive Programming, Classical Music, Languages, Mentorship & Coaching