Javier **Peralta**

Software Engineer · ML Enthusiast

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Summary

Software Engineer experienced in distributed systems and storage at scale, with a track record of improving efficiency, cost, and reliability across cloud platforms. Proficient in **Rust**, **C++**, and **C#**, and experienced in delivering high-impact projects in data security and system optimization. Passionate about systems programming, machine learning, and game development. I am excited to tackle new challenges while continuously learning and growing as an engineer.

Experience

Google (Cloud Platform / Persistent Disk Data Security)   *Kirkland, Washington*

Software Engineer   *Sept. 2023 - Aug. 2025*

- Worked on **Persistent Disk** a reliable, high-performance block storage for virtual machine instances used by millions of GCP customers, delivering improvements in storage efficiency, cost, and security at petabyte scale.
- Contributed to a major data format optimization effort **LFF3** for **Persistent Disk** which led to a 3% reduction in data size, resulting in significant cost savings and improved storage efficiency.
- Co-lead encryption enhancements to align with company-wide standards, improving security and adopting the latest internal cryptographic libraries.
- Leveraged existing compaction and compression logic for **Device Encryption Key** (DEK) rotation, eliminating the need for data recompression and reducing compute costs by 30%.
- Refactored compaction workers to adopt the new **Transcoder** encoding library, enabling bulk data processing, unifying the codebase, and unlocking broader initiatives like **LFF3** and **DEK rotation**.
- Coordinated end-to-end enablement of **Transcoder** in production, catching critical bugs in staging, and ensuring smooth rollout without customer impact.

Microsoft (Engineering Systems RnD)   *Redmond, Washington*

Software Engineer   *Feb. 2020 - Sept. 2023*

- Co-led the design and rollout of automation for *Open-Source Code* detection within *Inner-Source Code*, decomposing a monolithic service into microservices. Built scalable APIs in **Azure** (**Web Jobs**, **Functions**, **Storage Containers**, **Service Bus**), achieving a 4x increase in scanning capacity and unblocking release sign-offs for flagship products such as Microsoft Windows and Office.
- Contributed to the company-wide migration from **.NET Framework** to **.NET 6.0**, collaborating with cross-functional teams to resolve compatibility challenges. Streamlined large codebases by upgrading deprecated dependencies, eliminating dead code, and consolidating duplicates, improving maintainability and performance.

Oracle Mexico Development Center   *Guadalajara, Mexico*

Software Engineer   *Jul. 2015 - Apr. 2017*

- Developed web applications for Oracle Management Cloud - Enterprise Manager using **Backbone.JS**, creating, testing, and optimizing data visualizations for Target-Analytics.
- Implemented *Unit Tests* and *Integration Tests* using **Selenium** to identify and address performance bottlenecks in the application.

Quadev (Startup)   *Cuernavaca, Mexico*

Software Developer   *Aug. 2013 - Jun. 2015*

- Collaborated with a team to build an application for *SAGARPA*, a Mexican government agency. using **Java EE** and **Apache Flex**
- Led the internal effort to migrate the technology stack to **Java Spring**, resulting in a more efficient and maintainable codebase.

Education

CIMAT (Centro de Investigacion en Matematicas · Research Center in Mathematics)   *Guanajuato, Mexico*

M.S. in Computer Science   *Aug. 2017 - Dec. 2019*

- Graduate level reaserch in ML, with focus on **shape descriptors** for radio galaxies through classical statistical models and image analysis as well as through:
  - · Convolutional Neural Networks · Auto Encoders · Generative Adversarial Networks
- Got a Scholarship given through CONACYT

ITESM (Instituto Tecnologico de Monterey · Technological Institute of Monterrey)   *Cuernavaca, Mexico*

B.S. in Computer Science and Engineering   *Aug. 2009 - Dec. 2013*

- Got a Scholarship given to students with high GPA