

Genevieve Mendoza

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EDUCATION

Washington University in St. Louis

B.A., Majors in Statistics & Economics (High Honors)

St. Louis, MO

Aug 2019 — May 2023

- Leadership roles with ArchHacks/HackWashU, Association for Women in Math, and Fossil Free
- Teaching assistant for Data Structures & Algorithms and Mathematical Analysis; Dean's List

WORK EXPERIENCE

Software Engineer

2023 — Present

Remote (EU)

The Syllabus

- Partnered with clients to translate their needs into a full-stack React application for exploring & validating data insights
- Built data pipeline for recommendation and RAG features using fine-tuned BERT language models and document understanding for user recommendations
- Shipped a high-throughput ML service in Rust that processes 300K+ weekly signals, optimizing memory usage and concurrency handling to reduce latency
- Improved core API response speeds by 90x through SQL query tuning and trimmed over 30% of yearly cloud spend by eliminating cloud inefficiencies
- Architected new event-driven data streaming system on AWS and migrated all services to containerized deployments managed entirely with IaC
- Engineered new CI pipelines from scratch, increasing deploy frequency by >10x and reducing manual developer toil
- Brought adoption of full-stack observability with OpenTelemetry from 0% to 95%, uncovering bugs and cutting median time to restore service by over half
- Proactively eliminated security risks by identifying and mitigating leaked credentials with secret scanning and implementing role-based access controls
- Improved developer experience by documenting legacy cronjobs and consolidating 40% of unmaintained lines of code into the primary data processing service
- Collaborated on database schema redesign and migration to simplify the codebase and improve user load times

Assistant Editor, Black 1968

2022 — 2023

St. Louis, MO

WUSTL Department of History / Palgrave Macmillan

- Partnered with a multi-university research team on an interdisciplinary publication covering 1960s social history
- Improved clarity of technical writing, organized content and citations, and drove follow-ups on research tasks

Admissions Staff and Summer Intern

2019 — 2020

St. Louis, MO

Graduate Programs, Olin Business School

- Drove data-informed decisions by preparing BI visualizations, contributing to centralized data warehousing, and automating lead-generation scraping

SKILLS

- **Programming Languages:** Rust, Python, SQL (Postgres/sqlite), R, Nix, HTML/CSS, React, bash
- **Technologies:** Python data stack (Polars, Pydantic), Rust ecosystem (sqlx, tokio), Grafana, GitLab CI/CD
- **Machine Learning:** PyTorch, Sentence Transformers, LLM Fine Tuning with Transformer Reinforcement Learning (TRL)
- **Statistics & ML:** SVMs and MLPs, transformers (BERT), embeddings, neural networks, naive Bayes, NLP
- **Linux & Containers:** GNU tools, systemd, Docker/Podman, network namespaces, cgroups, nftables, iproute2, gdb, perf
- **AWS Stack:** ECS clusters; serverless architectures with Lambda, EventBridge, and SQS; S3 ELT; IAM and AWS Organizations, Terraform/OpenTofu
- **Workflows:** Collaborated in an Agile workflow tracking epics and story points with GitLab and Trello (Kanban) and DORA metrics
- **Languages:** English (fluent), French (proficient), Spanish (conversant)