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Experience

Meta — Software Engineer

April 2024 – Present

- Co-led an **AI-powered migration across Meta's Hack codebase** spanning 120+ AI-generated codemods and 20k+ diffs; reduced lint violations from 248k to 174k.
- Built a deterministic evaluator to verify that an AI code-review assistant followed the required action order. Redesigned prompts, improving issue resolution **62% relative to control in A/B-tested benchmarks**.
- Self-initiated **Arty, a live-data dashboard platform** integrating 3 internal data systems; solo-built its first usable version in ~2 weeks. Generally available internally, with 500 distinct users over 7 days (as of Aug. 19, 2026).
- Identified query failures concentrated in one coding agent through telemetry; refined its CLI workflow instructions, reducing **malformed-query failures 38%**.
- Built observability for Meta's Rust build system serving tens of thousands of engineers; the work contributed to a **49% reduction in release-engineering operator load**.
- Cut daily build failures **48% (75→39/day)** by discovering an unobserved Ctrl-C failure pattern and implementing fail-fast error propagation in the core Rust binary.
- Authored internal AI workflow instructions with **39k installs**; designed multi-agent feedback loops for autonomous research workflows.
- Owned build-system operational health across 13 oncall rotations; **led a SEV1 investigation and cross-team response**.

Parallel Systems — Software Engineer Intern

June – September 2023

- Built the first observability layer for a safety-critical autonomous railcar fleet using async Rust and procedural macros; adopted across all backend services, with no performance regression observed in A/B benchmarks.

Meta — Software Engineer Intern, WhatsApp Android

June – September 2022

- Designed a **Kotlin HTTP mocking framework** for end-to-end network testing in WhatsApp's Android client; replaced the Factory pattern with dependency injection across network clients.

Selected Projects

LLM-Powered Enterprise Chatbot

January – June 2023

Academic client project for Perficient

- Led a 5-person team building a GPT-3 chatbot for Azure DevOps and Notion tasks, including reassignment and summarization; reduced common task times **80–90%** using few-shot prompting and function calling. Pitched to client stakeholders; selected after team presentations.

VantTec — ITESM — Computer Vision Lead

2019 – 2021

- Led autonomous-submarine perception: ML object localization, stereo-vision 3D detection in ROS, and real-time target acquisition on non-GPU hardware.

Education

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)

February 2024

Bachelor of Science in Computer Science | GPA: 4.0

Skills

AI / Data: LLM agent orchestration, evaluation, function calling, retrieval-augmented generation (RAG), TensorFlow

Engineering: Python, Rust, JavaScript, C++; CI/CD, gRPC, Prometheus, Grafana, distributed systems observability