

MIGUEL F. SERNA

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EDUCATION

The University of Texas at Austin Pursuing *Bachelor of Science, Computer Science* May 2027
Relevant Coursework Programming for Performance, Cloud Computing, Data Structures, Operating Systems, Computer Architecture, Discrete Math, Linear Algebra.

SKILLS

Programming Languages: *Fluent in* Java, C, C++, Python; *Intermediate in* HTML/CSS, JavaScript; *Familiar with* Kotlin, C#.

Technical skills: Linux, Docker, AWS, GCP, Git, SQL, Node, Flask, Spring Boot, JPA, Postman, Atlassian Suite, GSuite.

Languages: *Native in* Spanish, *Fluent in* English.

PROJECTS

- **AgentNet:** Developing a multi-agent architecture that makes existing codebases agentic by semantically mapping repositories and allocating specialized agents as code owners, delivering precisely scoped context to enable autonomous code maintenance at scale.
- **Agent Testing Suite:** Built an open-source benchmarking and orchestration suite for evaluating iterative AI coding agents, featuring multi-provider metric parsing, cost tracking, and containerized test execution across models like Claude, Gemini, and GPT.
- **Minecraft AI Vision:** Trained a computer vision ML model to recognize different mobile entities and implemented it into a Minecraft bot. The bot successfully labels hostile creatures in real-time, allowing it to perform actions like attacking them or fleeing to a safe location.
- **Random Number Generation:** Wrote an [academic paper](#) evaluating Python's Mersenne Twister and JavaScript's Xorshift128+ pseudo-random number generators.

INTERNSHIPS & EXPERIENCE

Agent Operations Lab (agentops.sh) Jan 2026 – Present
Co-Founder

- Researching and building infrastructure for long-running, independent coding agents, including a benchmarking suite for iterative AI agents (Agent Testing Suite) and a multi-agent architecture that embeds context-aware agents directly into existing codebases (AgentNet), enabling enterprise-scale autonomous code maintenance.

Cursor Campus lead (Under Anysphere) – UT Austin Aug 2025 – Present

- Received \$18K of unofficial funding in research credits from Cursor by maintaining a close partnership with the team, recognized for demonstrating the strongest initiative and most compelling AI research insights among campus founders nationwide.
- Built and led UT Austin's Cursor developer community, fostering a network of builders at the frontier of AI tooling and driving adoption of AI-powered development workflows across campus.

Google – Onsite; Sunnyvale, CA May 2025 – Aug 2025
SWE Intern (ASDI); Workspace team within Google Cloud

- Designed and developed a new feature that addressed a critical API performance bottleneck by introducing server-side filtering, reducing data fetched by 98%, lowering server resource utilization by ~80%, and improving latency by ~79%.
- Contributed to a large-scale data migration project by driving modernization of a core backend component, migrating from a legacy service to a scalable solution, reducing latency by 54% for 600+ queries per second and lowering technical debt.

Ouro Global inc. (formerly Netspend) – Onsite; Austin, TX May 2024 – July 2024
Back-end Development Intern

- Enhanced quality assurance process by implementing a new web action used to test and validate calls made by the company's internal user creation API flow, improving the reliability of new feature deployments.
- Identified and resolved critical production bugs on the custom testing suite built for Ouro's backend, using the Cucumber framework and Groovy.