

Roman Slack

romanslack.com • romanslack1@gmail.com • github.com/romanslack • [LinkedIn](#) • [X.com](#)

AI Engineer specializing in agentic AI systems, production LLM deployment,
& cloud-native platform architecture.

EDUCATION

[Rochester Institute of Technology](#) | Computer Science & Applied Mathematics, 2024 - 2025

- Relevant Coursework: Computer Science lecture/lab, Discrete Mathematics, Calculus, Research / Technical Writing Lab, Graph Theory

EXPERIENCE

Lead AI Platform Engineer

July 2025 - Present

[Just-Tech LLC](#) | New York City, NY

- Developing AI products for the legal sector with deployment to over 60,000 users and millions of Americans seeking legal assistance. In just 7 months I contributed to around \$650,000+ in contracts.
- Applied **Google Cloud & Azure** for service / AI integration, ensuring **scalability** and optimized **performance**.
- Collaborated with clients such as the New York State Bar Association and numerous national legal service leaders.

AI Research Intern

June 2025 - August 2025

[Air Force Research Laboratory Information Directorate](#) | Rome, NY

- Worked with a team to conduct classified research in the defense space utilizing custom AI algorithms and leveraging virtual spaces.
- Applied **professional communication** and **leadership** techniques in the lab, and worked towards achieving novel and SOTA techniques in our field of research. The research paper is pending declassification approval.

AI / Fullstack Engineer

Nov 2024 - March 2025

[Levangie Laboratories](#) | Rochester, NY

- Constructed Agentic AI systems, working directly with the latest AI developments to build autonomous systems.
- Collaborated with a team of engineers to **design** and **optimize workflows** to meet project specifications.
- Assisted in the creation of an early SOTA, AI computer use system. [CUINAV](#)

PROJECT EXPERIENCE

[Juris Platform](#) - AI-Powered Legal Document Analysis System (Acquired by Just-Tech LLC)

December 2024 - Present

- Built a cloud-native microservice platform for secure legal document analysis using agentic search, with an automated pipeline: SharePoint ingestion → AI summarization → AI tagging → agentic retrieval, performing reliably across document counts up to 50,000.
- Engineered multi-tenant architecture with role-based access and automated CI/CD across a dual Azure–Google Cloud deployment, now powering Just-Tech's JTAI enterprise product line for tens of thousands of users.

[VibeOS](#) - Agentic Operating System (Built in Rust) (Proprietary)

Aug 2024 - Present

- Architecting a production agentic OS in Rust featuring a multi-agent orchestration framework (orchestrator + specialist agents), real-time WebSocket streaming, PTY-based command execution, persistent memory (SQLite + FTS5 hybrid search), and a dynamic plugin system - all running inside a headless Ubuntu VM. Plus, a universal client system for instant connection from any phone or IoT device.
- Dual-persona architecture pairing a Rust worker agent with a Python voice interface featuring speech-to-speech interaction, barge-in, and real-time audio streaming via React Native.

[Conversational Voice System](#) ("Her") - SOTA Real-Time Speech-to-Speech Platform

Jan 2026 - Present

- Developed one of the fastest continuous AI voice systems for natural, real-time conversational interaction using speech-to-speech architecture with TypeScript and modern TTS/STT pipelines.
- Designed for low-latency, human-like dialogue, directly applicable to agentic conversational member support experiences.

SKILLS

Technical: Claude Code, Python, PyTorch, Codex, NumPy, C#, C++, JavaScript, Flutter, FastAPI, Postgres, HTML5 web design, Terraform, Blender, Unreal Engine 5 (UE5), Unity, Git, Jupyter Notebooks, Langchain - **Deep Learning Specialization** ([DeepLearning.ai](#)), Linux, NextJS, React, Node.js
Empirical: OpenAI API, Google Products, AWS, Azure, Google Cloud, Languages: English (Native), Spanish (Inter), Chinese (Inter)

LEADERSHIP

[RIT AI Club](#) - Club Project Manager (700+ Members)

January 2025 - Present

- Spearheaded project planning and execution for an AI Bootcamp, fostering collaboration across interdisciplinary teams.

[NextGen](#) - Founder & Instructor

January 2023 - March 2024

- Founded and organized a **free programming day camp**, providing **underserved students** with an opportunity to learn programming & AI.

[Reptile Gardens](#) (Largest Reptile Zoo in the world) - Horticulture Team Lead (4.5 Years)

Jun 2020 - Jul 2024

- Managed a horticulture team at the world's largest reptile zoo; efforts resulted in multiple state tourism awards.