

# Roman Slack

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Fullstack Engineer specializing in applied large language models, Simulations, and RL.

## EDUCATION

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### Rochester Institute of Technology | Pursuing Bachelor of Science in Computer Science & Applied Mathematics, 2027/8

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

## EXPERIENCE

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### AI Platform Developer

July 2025 - Present

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

- Developing leading AI products in the legal sector with planned deployment to over 60,000 users. In just 4 months I achieved around \$160,000+ in Sales.
- Applied **Google Cloud & Azure** for backend integration, ensuring **scalability** and optimized **performance**.
- Collaborated with clients such as the New York State Bar Association and numerous state 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.

### AI / Fullstack Engineer

Nov 2024 - March 2025

[Levangie Laboratories](#) | Rochester, NY

- Constructed Agentic AI systems, working directly with the latest AI developments to build advanced AI systems.
- Collaborated with a team of engineers to **design** and **optimize workflows** to meet project specifications.
- Developed front end + back end systems to support agentic framework
- Applied knowledge of data structures, databases, and algorithms to achieve complex AI oriented tasks.

### Founder and CEO of NextGen

Jun 2023 - Jan 2025

[NextGen](#) | Black Hills Area, SD

- Founded and organized a **free programming day camp**, providing **underserved students** with an opportunity to learn programming in a supportive environment.
- Led partnerships with local nonprofits and government organizations to coordinate and execute successful events.

## PROJECT EXPERIENCE

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### [Cognitive Deployment SDK](#) — Agentic API Platform

Nov 2024 - March 2025

- Built a modular deployment SDK and FastAPI-based interface enabling production rollout of autonomous cognitive agents using Docker and Terraform pipelines.
- Developed internal CLI tooling and Postgres-backed observability stack for reproducible, real-time agent operation across partner environments.

### [Hlynry Intercept](#) — Radar-Based Missile Defense Simulator (Production RL Environment)

July 2025 - Present

- Delivered a production-ready radar-only RL environment (6-DOF physics, PAC-3 dynamics) with a 17-dimensional observation space, domain randomization, and curriculum training; training/inference tooling exposed via FastAPI for real-time evaluation.
- Implemented realistic sensor/atmospheric models, progressive scenario suite, unified logging, and deployment configs enabling reproducible training runs and offline/online evaluation pipelines.

## SKILLS

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**Technical:** Python, PyTorch, Claude Code, 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 (Adv), Chinese (Inter)

## LEADERSHIP

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

January 2025 - Present

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

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

Jun 2020 - Jul 2024

- Managed a horticulture team in the world's largest reptile zoo, enhancing operations through effective team management, resource allocation, and project execution. Our efforts resulted in winning multiple **state tourism awards**.