

Finn Rutis they / them

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Python engineer who treats AI reliability as a testing problem. I build CI/CD quality gates with GitHub Actions, validate LLM outputs in my own automation projects, and run a NixOS homelab where every service has to prove it works before it ships.

TECHNICAL SKILLS

Test Automation & Quality	GitHub Actions, CI/CD pipelines, structured output validation, prompt testing, automated quality gates
AI / LLM	LLM integration, Prompt engineering, Structured output (JSON), Python automation, Agent tooling
Infrastructure & DevOps	Docker, Nix Ecosystem (Flakes, Nixpkgs, Home Manager), Declarative Infrastructure (NixOS), Reproducible Builds, Reproducible Test Environments, Git, GitHub, Homelab Self-Hosting, TCP/IP, VLANs, DMZs, DNS / DDNS, NAT, Load Balancing (MetalLB), Firewall Administration (FortiGate)
Programming	Python, Nix, Bash
Operating Systems	Linux (Ubuntu, NixOS), Windows, macOS, iOS

EDUCATION

 CAP21 / Molloy University BACHELOR OF FINE ARTS IN MUSICAL THEATRE	NYC 2022 - 2026
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PROJECTS

AI-Driven Automation Pipelines *Jan 2023 – Present*

PERSONAL PROJECT

Wrote Python tooling that wires LLMs into everyday work. Most of the effort went into validating outputs: tight system prompts and strict JSON schemas that catch bad generations before downstream code tries to parse them. Use it for data wrangling and one-off script generation where the result has to be machine-readable every time.

Declarative Infrastructure & Self-Hosting Environment *Nov 2016 – Present*

PERSONAL PROJECT

Run a homelab that hosts dozens of internet-facing services on VMware ESXi, KVM, and Docker. The whole environment is declared in NixOS and Flakes, so a machine rebuilds identically from scratch. That same reproducibility is what makes test environments stable: the same inputs give the same outputs, every run.

Enterprise-Grade Network Architecture & Security *Aug 2019 – Present*

PERSONAL PROJECT

Built and run the network behind the homelab on a FortiGate firewall: separate DMZs, isolated VLANs, and MetalLB load balancing in front of public services. Nothing trusts anything by default. That isolation mindset carries over to separating test fixtures from production systems so a failure in one place cannot bleed into another.

Cross-Platform Systems Management (Nix) *Jun 2023 – Present*

PERSONAL PROJECT

Keep macOS and Linux machines in sync from one version-controlled repo using Home Manager and nix-darwin. New machine, one command, same environment. CI checks the config before it lands, so a bad change gets rejected before it hits any laptop.

Typst-Generated Resume System *Oct 2024 – Present*

PERSONAL PROJECT

Built the system that generates this resume in Typst. Every push runs a GitHub Actions pipeline that compiles and validates several tailored variants from shared metadata. A broken fact gets caught before it reaches a PDF, and updates fan out to every resume that needs them.

EXPERIENCE

Shift Coordinator

SALT & STRAW

April 2026 – Present

New York, NY

Own the flow of a busy West Village scoop shop from open to close. Lead a team of 5+ scoopers through the dinner rush, assign stations, and rework the plan in real time when the line hits the door. Train every new hire on shop standards and rhythm, catch quality issues before they reach the customer, and stay the calm person the team looks to when the pressure is on. Most shifts are a series of split-second decisions made out loud, with the room watching.

Student Ambassador

MOLLOY UNIVERSITY

October 2022 – May 2026

Rockville Centre, NY

The public face of the university for prospective students, parents, and admissions staff. Ran campus tours and welcome events, translated the same facts into different messages for a nervous parent and a skeptical teenager, and fielded every question on the spot. Worked daily with admissions to keep outreach consistent across audiences.