

Hannan Syed Shah

hannansshah2004@gmail.com | [linkedin.com/in/hannansyedshah](https://www.linkedin.com/in/hannansyedshah) | github.com/hannansyedshah
hannansshah.com | New York, NY

EXPERIENCE

Beagle Labs

Sep 2025 – Present

Founding Applied AI Engineer

New York City Metro (Hybrid)

- Shipped a production **Next.js/TypeScript** inspection portal used daily by field inspectors across multiple properties, with threaded email, per user access controls, and automated CI tests.
- Engineered **multi agent AI pipelines** on **Google ADK** turning inspection photos into live streamed risk reports, scoring structure, hazards, valuation, and zoning as structured outputs validated in **Braintrust**.
- Launched a **Stripe Connect** payout system for 1099 contractors with an auditable approval and release flow and safe retries, keeping contractors' sensitive data off company servers.
- Automated a serverless replacement cost valuation engine on **AWS Lambda** and **API Gateway**, with versioned pricing models spanning materials, labor, and permits that deploy automatically.
- Standardized **CI/CD** across six greenfield systems (GitHub Actions, Docker, Google Cloud Run, GCP Pub/Sub) and placed the **PostgreSQL** schema under Git, gating production changes behind manual approval.

Browserbase

Jun 2025 – Aug 2025

Core Engineer Intern

San Francisco Bay Area (Onsite)

- Consolidated support tooling into a **Next.js/Kubernetes** admin dashboard, removing secrets from 25+ laptops and adding federated search across Supabase and Clerk that cut support triage from **30 minutes to under 5**.
- Gated high risk support actions behind **Zod** validation and tiered **Clerk RBAC** with full audit logging; diagnosed the root cause of **Microsoft's** failing end to end tests via proxy tracing, unblocking their enterprise contract.

Casca (YC S23)

Jan 2025 – Apr 2025

Software Engineer Intern

San Francisco Bay Area (Hybrid)

- Cut loan decisions from **72 hours to 2 minutes** at **99.8%** uptime via a SOAP credit scoring system for banks.
- Indexed **20,000 client files** (**AWS Textract OCR**, Elasticsearch), cutting discovery 85% and underwriting 3x; automated Gmail auth with Redis locking, taking SBA loans from 2+ days to under a minute.

Blockhouse

Nov 2024 – Jan 2025

Software Engineer Intern

New York City (Hybrid)

- Developed a **FastAPI** financial recommendation system and led the front end migration off the Polygon API.

Florida International University

May 2024 – Aug 2024

Machine Learning Researcher

Miami, FL (Onsite)

- Built **TinyDistillation**, benchmarking six **federated learning** aggregation methods vs. six Byzantine attacks.

EDUCATION

Rutgers University, Honors College

Sep 2022 – May 2026

B.E. in Electrical and Computer Engineering

New Brunswick, NJ

- Full Ride Scholarship; QuestBridge National Match Finalist. **Awards:** Regeneron Runner Up, HackPrinceton 2026 (Atlas); 3rd Place, Datadog AI Agent Hackathon 2025 (Hawkeye, multi agent).

PROJECTS

Cylixia | Clinical Research Platform (Full Stack Web App)

Dec 2025 – Apr 2026

- Deployed platform to production, now **live and in daily use** at Rutgers Robert Wood Johnson Medical School.

Voyager | Docker, Kubernetes, Grafana, Prometheus, OpenTelemetry

Aug 2025 – Apr 2026

- Simulated **2,000+ concurrent flights** on a Dockerized, Kubernetes driven deployment with full observability (Grafana, Prometheus, OpenTelemetry, Loki, Tempo); senior capstone addressing air traffic controller fatigue.

Atlas | Clinical Trial Investigator Discovery

May 2026

- Built investigator discovery across **12 clinical trial registries**; **Regeneron Runner Up**, HackPrinceton 2026.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, Node.js, FastAPI, tRPC, Prisma, Zod, Resend, REST APIs

Cloud & DevOps: AWS (Lambda, S3), GCP (Cloud Run, Pub/Sub), Docker, Kubernetes, CI/CD, GitHub Actions

AI & ML: LLMs, Multi Agent Systems, AI Agents, Agentic Workflows, RAG (Retrieval Augmented Generation), Vector Databases, Embeddings, Function Calling, Google ADK, LLM Evaluation (Braintrust), Prompt Engineering

Data & Observability: PostgreSQL, Supabase, Redis, Elasticsearch, AWS Textract (OCR), Grafana, Prometheus, OpenTelemetry, Loki, Tempo, PostHog, SpacetimeDB, Git, Clerk (RBAC), Stripe Connect, Vercel