# Henri (Cody) Comyns

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## EDUCATION

**University of Virginia** **Charlottesville, VA**
*Majors: Computer Science (B.A.) and Math (B.A.) with a Concentration in Probability and Statistics* *Expected May 2027*
- **Cumulative GPA:** 3.94/4.00
- **Coursework:** Artificial Intelligence, Reinforcement Learning, Computer Networks, Software Development Essentials, Data Structures & Algorithms, Computer Systems & Organization, Linear Algebra, Mathematical Statistics, Financial Accounting

**Phillips Academy** **Andover, MA**
- **Cumulative GPA:** 5.80/6.00 (top 10%) *Graduated June 2023*
- **SAT:** 1560

## PROJECTS

**Persistent Multi-Agent System**
*Technical Writeup & Demo Video: https://codycomyns.substack.com/p/building-a-multi-agent-system-that*
*Tech Stack: Python, TypeScript, Next.js, PostgreSQL, AWS, Terraform, Vercel*
- Built a distributed multi-agent system with up to 13 concurrent Codex agents (1 orchestrator + 12 subagents), each running in an isolated EC2 instance, to execute open-ended research and data mining tasks
- Created a serverless control plane that enforces the 12 subagent concurrency limit and dynamically provisions scoped IAM policies, restricting each subagent to its assigned S3 prefix
- Implemented a persistent memory system by assigning each project a unique GitHub repository, S3 bucket, RDS database, Vercel Project, and ledger of markdown files explaining the current state of the project, allowing for multi-agent runs to be resumed
- Within a single overnight run, this system collected 24,000 podcast episodes across 500+ podcast channels

## PROFESSIONAL EXPERIENCE

**AI Engineering Intern | *Invidia Capital Management*** **New York City |** *June 2026 - August 2026*
*Tech Stack: Python, TypeScript, Next.js, PostgreSQL (pgvector), Azure, Vercel*
- Created a company knowledge base over the firm's CRM data and a Microsoft Teams Agent that can use the knowledge base to answer questions about past deals or our advisor network
- Built an asset finder tool, which helps identify companies (both founder-owned and sponsor-owned) in a given healthcare theme that fall within our investment mandate
- Automated candidate identification and contact information retrieval to support internal talent acquisition efforts

**Mechanistic Interpretability Researcher | *Li Research Group*** **Remote |** *August 2025 - February 2026*
- Received a $3,000 grant from the National Science Foundation
- Investigated failure modes of reasoning models when scaling test-time compute across misleading prompts, including activation patching experiments, demonstrating that swapping a single token's activations can meaningfully change a model's answer
- Trained linear probes on residual stream activations to detect answer uncertainty and distraction in LLMs

**Software Engineering Intern | *lockchain.ai*** **Remote |** *May 2025 - July 2025*
*Tech Stack: Python, AWS*
- Developed internal analytics tooling with Langfuse for monitoring our automated research report generation
- Shipped proof-of-concept features for a prospective client, including token classification workflows and GitHub activity analysis for open-source token projects

## LEADERSHIP

**President | *Phi Kappa Psi Fraternity*** **Charlottesville, VA** | *March 2025 - March 2026*
- Raised over $200,000 for renovations to the fraternity house and created a 4-year plan for construction and fundraising
- Coordinated with contractors, alumni, and legal advisors to structure renovation funding through an LLC
- Organized and spoke at an alumni event with over 140 people in attendance

**Coverage Director** | ***Alternative Investment Fund (AIF)*** **Charlottesville, VA** | *September 2023 - Present*
- Created and presented two hour-long slide decks on LLM research with an emphasis on long context reasoning
- Presented comprehensive stock pitches on CAVA Group and Constellation Energy with valuation models

## PUBLICATIONS

**First Author** | "Dual incorporation of noncanonical amino acids enables post-translationally modified selenoproteins"
**URL:** *https://pubmed.ncbi.nlm.nih.gov/36762212/* **Publication Date:** *January 24, 2023*
**Third Author** | "Deciphering the Role of Selenoprotein M"
**URL:** *https://pubmed.ncbi.nlm.nih.gov/38001759/* **Publication Date**: *October 25, 2023*

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, SQL
**Frameworks & Libraries:** Next.js, React, Node.js, PyTorch, scikit-learn
**Cloud & Databases:** AWS, Azure, Terraform, Vercel, PostgreSQL (pgvector)