Samson Rozansky

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EDUCATION

Carnegie Mellon University   May 2028
Bachelor of Science in Computer Science, Concentration in Machine Learning   *Pittsburgh, PA*
Relevant Coursework:
Database Systems, Computer Systems, Parallel Data Structures and Algorithms, AI/ML, Imperative Programming, Functional Programming, Human-Centered Software, Game Theory, Calculus 3, Linear Algebra, Differential Equations, Discrete Math, Constructive Logic, Theoretical Computer Science, Computational Probability

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, C#, JavaScript, SML/NJ, OCaml, Prolog
Frameworks and Libraries: Pandas, BeautifulSoup, Matplotlib, Flask
Technical Skills: Linux, LaTeX, Git, Github

EXPERIENCE

Baxter International   May 2025 - August 2025
Machine Learning Engineering Intern   *Raleigh, NC*
- Built **RCA** retrieval model by indexing every solved JIRA issue (over **5,000**), to improve match rate for errors
- Enabled SWEs to generate **unit tests** via a **Flask** tool integrating **Baxter LLM API + Ollama**, boosting coverage
- Improved **internal knowledge search** by chunking **15 years** of docs into a **vector DB**, resulting in quicker answers.
- Speedup information retrieval using **RAG**, resulted in improving workflow and decreased communication overhead

Velocity Labs   May 2024 - August 2024
Quantitative Analyst Intern   *Chapel Hill, NC*
- Implemented **Recurrent Neural Networks** and **Support Vector Machines** for predicting stock prices.
- Built an interactive **Python P&L** visualizer for **option spreads** to compare payoff profiles and support trade selection.
- Built a **DXLink WebSockets** proof-of-concept to stream **real-time data** and share an internal usage guide.
- Studied option fundamentals (**Greeks**, volatility concepts) to contribute to the team's **implied volatility** forecasting work

Hype for Types   Spring 2026
Instructor   *Pittsburgh, PA*
- **Designed curriculum** and taught **weekly lectures** for undergraduates interested in **type theory**.
- Topics covered included **Rust's** type system, **proof assistants**, and **formal verification**.
- Handled **logistics** including the **course website**, homework **autograders**, and coordinating office hours.

PROJECTS

Email-lingo | *LLM-powered trainer for professional email writing*   September 2025
- Built a **Flask** app with **SQL** to generate scenarios and evaluate submissions via an **Ollama**-hosted LLM
- Implemented consistent **LLM** rubric-based scoring across catergories with weighted totals.
- Created **analytics** (trend/bar/radar PNG charts), achievement tracking and kept information persistent.

Analyzing Education Retention | *Analysis about factors that contribute to dropout rates*   March 2024
- Implemented **recursive** feature removal to see what parts of a student's history are irrelevant.
- Ran multiple visualizations including **PCA** to assist in understanding data.
- Applied different distance metrics for hyper-parameter **optimization.**

Hunt Institute Datathon | *Data Analysis About Sleep*   March 2023
- Placed 1st in collegiate division for analyzing NC education system to find improvements
- Developed automated data cleaning **pipelines** for efficient processing.
- Used **Tableau** to visualize the impact of potential policies about sleep awareness.

Circa | *Messaging app focused around discovering clubs.*   April 2022
- Placed second overall in the school-oriented track for NC State Pack-Hacks Hackathon.
- Leveraged **Git** expertise and **JavaScript** proficiency to develop scalable backend solution.
- Implemented a RESTful **API** to send and delete messages.

HONORS

Second place in Carnegie AI Safety x Gray Swan Hackathon	November 2025
First Place Jane Street GUTS++ Challenge	February 2025
Second Place ACM@CMU Algorithms With A Purpose challenge	February 2025
First overall in the world in American Computer Science League	2020 - 2024
Top 5 in Citadel Securities Quantitative Challenge	September 2024
First overall in the world Math Kangaroo with perfect score	March 2024
First place in NC State DiamondHacks Hackathon Competition	April 2023
First place in College of Charleston 40th Annual Programming Competition	February 2023