Sam Frostman

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Objective

Computer Science student at RIT and software engineering intern at Hrizn, seeking a 2027 software engineering, full-stack, or AI/ML co-op. I build TypeScript and Python web apps, game-playing AI, and Linux servers.

Education

Rochester Institute of Technology — Rochester, NY
Bachelor of Science in Computer Science, Astronomy Immersion — *Expected May 2028*

- **Relevant Courses:** Introduction to Machine Learning, Introduction to Artificial Intelligence, Analysis of Algorithms, Computer Science Theory, Principles of Data Management, Intro to Database and Data Modeling, Introduction to Software Engineering, Mechanics of Programming, Linear Algebra, Probability and Statistics

Technical Skills

Languages: Python, Java, TypeScript, JavaScript, SQL, HTML/CSS, C, Racket
Frameworks: React, Next.js, Angular, Flask, Django, Spring Boot, Node.js, SQLAlchemy, PyTorch
Data & APIs: PostgreSQL, SQLite, MySQL, Supabase, Hasura (GraphQL), REST, OAuth2, Stripe
Infrastructure: Linux, Nginx, Docker, Vercel, AWS CDK, AWS SSM, GitHub Actions, pnpm/Turborepo, Git

Software Experience

Software Engineer Intern — September 2026 – Present
Hrizn — *Part-time*

- Develop and debug features in a TypeScript monorepo (pnpm, Turborepo) across Next.js/React and Node.js.
- Work with Hasura GraphQL, Stripe, and Vercel, and manage AWS configuration with CDK and Systems Manager.

Projects

Chess Engine with Learned Evaluation | *Python, PyTorch, Stockfish* — April 2026 – Present

- Built alpha-beta search with iterative deepening, Zobrist-hashed transposition tables, quiescence search, null-move pruning, and LMR.
- Trained ridge-regression and MLP evaluators on 50+ engineered features from Stockfish-labeled positions gathered from PGNs and self-play, with tooling to benchmark them.

LumaMerit – Astrophotography Competition Platform | *Next.js, TypeScript, Supabase, Stripe* — 2026 – Present

- Building a platform that groups entries by experience, equipment, and integration time for fairer judging.
- Next.js and Supabase (Postgres, auth) with Stripe payments, Resend email, and Python image validation; on Vercel.

Browser-Based Chess AI | *JavaScript, Web Workers, Flask* — June 2026

- Built a chess web app whose alpha-beta engine runs in a Web Worker, with configurable depth and time limits.
- Added move highlighting, undo, persistent game state, and live engine statistics.

Book Database Web App | *Flask, PostgreSQL* — December 2025

- On a 4-person team, built a Flask app over a PostgreSQL database of millions of records; tuned queries and indexes.

Work Experience

Bookkeeper / Service Lead — October 2021 – Present (on leave)
Hannaford Supermarkets

- Promoted from cashier to service lead, later taking on bookkeeping for front-end operations.
- Coordinated breaks, workflow, register support, and staff training; resolved customer escalations.
- Balanced tills, ran cash-office procedures, prepared deposits, and maintained accurate financial records.

Volunteer Experience

Moderator — November 2024 – Present
Ranboo's Corner Discord (100,000+ members) — *Remote*

- Enforce rules and handle reports; worked with the team on unified messaging for contentious topics.
- Helped build a resource list on mental health and cultural awareness for a community with many LGBTQ+ youth.