Wyatt Sell

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EDUCATION

Cornell University	**Ithaca, NY**
B.S. in Electrical and Computer Engineering, Minor in English	*Expected May 2027*
M.Eng. in Electrical and Computer Engineering (Planned)	*Expected Dec 2027*

GPA: 4.03

Related Courses: Digital Logic and Computer Organization (FPGAs), Signals & Systems, Digital Systems Design Using Microcontrollers, Object-Oriented Programming & Data Structures (Java), Data Science for Engineers, Differential Equations, Linear Algebra

PROFESSIONAL EXPERIENCE

Samaritan Scout | *Volunteering Search Engine* **Remote**
Head of Technical Development *May 2024–August 2025*

- Scaled SamaritanScout.org nationally, scraping 12K+ nonprofit sites and processing them through an LLM-powered ETL pipeline to generate 30K+ structured volunteer opportunities.
- Rebuilt the backend and search infrastructure, implementing a vector database for semantic queries, filtering, and multithreaded ETL job servers with real-time log streaming to a user-friendly dashboard via WebSockets.
- Delivered full-stack features including account authentication, AI-driven recommendations, and redesigned onboarding and search UX, while managing cross-platform deployments for cost-efficient scalability.

PocDoc | *Point-of-care blood testing* **Cambridge, UK**
Software Intern *July 2025*

- Developed robust computer vision software to rapidly identify and highlight manufacturing defects in a range of lighting environments.
- Created sensitivity analysis models for staffing, stock levels and optimal order frequency

Remnote | *Memory-oriented Note Taking app* **Remote**
Software Engineer *January 2022–June 2023*

- Shipped major product features including PDF annotation, rich text formatting, platform-wide dark mode, and collaborative course tools in a 1M+ line React codebase serving 30K+ MAUs.
- Designed and rolled out platform-wide DOM rendering optimizations and core refactors that boosted React performance and reduced regressions.
- Collaborated with 12+ engineers on feature design, code reviews, and developer experience improvements, building style guides, automated tests, and shared utilities.

PROJECTS

Maxims **www.maxims.app**
Independent Project *June–August 2025*

- Built an interactive knowledge visualization platform that transforms text and images into multimodal embeddings and projects them onto a 2D similarity map with UMAP/t-SNE.
- Implemented a modular encoder system supporting Cohere, VoyageAI, Nomic, and local inference, with real-time D3.js visualization of thousands of nodes and dynamic filtering.
- Designed a local-first architecture (Next.js 15, TypeScript, IndexedDB, Bun) with offline support, extensible plugin system, and modular pipelines for parsing, encoding, and visualization.

Revisio **www.revisio.app**
Independent Project *April 2021–April 2023*

- Developed and deployed a full-stack study platform featuring custom spaced-repetition algorithms, microservices for nightly scheduling algorithms, and automated ETL pipelines using web scraping to aggregate, parse, and cache academic resources from multiple online sources.
- Implemented secure authentication, payment integration, credit-based incentive systems, leaderboards, and collaborative course publishing tools, creating an interactive environment that blends algorithmic scheduling, gamification, and content management.

SKILLS

- **Development:** TypeScript (Node.js, React, Next.js), Python, SQL, Java, C; REST/WebSocket APIs, microservices, data pipelines, D3.js
- **Infrastructure & Tools:** PostgreSQL, Redis, Supabase, Docker, Git, CI/CD, Tailwind, Figma