Wyatt Sell

wss58@cornell.edu +1 (607) 339-1403 | +44 7534 070696 wyattsell.com | github.com/wyatt | linkedin.com/in/wyattsell/

EDUCATION

Cornell University

Ithaca, NY

B.S. in Electrical and Computer Engineering, Minor in English

M.Eng. in Electrical and Computer Engineering (Planned)

Expected May 2027 Expected Dec 2027

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 LLMpowered 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