

NOAH VANSICKLE

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PROFESSIONAL EXPERIENCE

The Information, New York, NY

June 2024 – Present

Full Stack Software Engineer

- Architected, built, and launched Deep Research, The Information's AI-powered research assistant, enabling journalists and subscribers to query proprietary reporting via natural language using a ReAct architecture (LangGraph)
- Built scalable content processing pipeline for semantic search and RAG, optimizing document indexing and retrieval across thousands of proprietary articles
- Designed personalized content delivery system using LLMs to generate tailored email digests and newsletters, dynamically matching content to user interests
- Developed high-throughput webhook service in Rails/Sidekiq enabling real-time content distribution to external partners; delivered features across 5+ Rails apps and React SPAs
- 2x winner of the Red Phone award for outstanding performance

Independent Work, New York, NY

Founder & Software Consultant

Bellwork.ai — K-12 data intelligence platform

Dec 2025 – Present

- Engineered and self-hosted a massively parallel web-crawling operation across 150k school/district with custom proxy infrastructure, news monitoring with GDELT and BigQuery, and several bespoke board meeting scrapers
- Trained a two-stage document classification pipeline — heuristic pre-filter + embedding-based logistic regression (nomic-embed-text-v1.5) on 50K+ labeled HTML pages and PDFs — to surface high-signal documents and cut downstream LLM costs by orders of magnitude
- Built an LLM-powered structured extraction layer using Gemini flash batch to parse unstructured documents into normalized intelligence relevant to a K-12 seller: staff contacts, vendor stacks, bids, board decisions, and strategic plans
- Designed and launched the Bellwork REST API with a credit-based unlock model and MCP server integration for AI agent tooling, exposing K-12 contacts, buying signals, RFPs, and running a whole prospecting flow directly through AI
- Built a full-stack Next.js application consuming the REST API enabling EdTech sales teams to query district intelligence, surface AI-generated buying signals, and compose agentic workflows on live K-12 data
- Built a product end-to-end and able to sell it for significantly less than competitors due to ruthless cost optimization

Simby.ai — AI-powered adaptive learning platform

June 2024 – Dec 2025

- Built a multi-modal learning platform with a LangGraph multi-agent system for dynamic course generation and a serverless AWS Step Functions/Lambda pipeline auto-scaling across video, PDF, and document ingestion

K-12 Software Consulting

March 2025 – Present

- AI-focused web and software development for K-12 education companies; designed and integrated LLM capabilities into existing EdTech products

Eskalera, Remote

March 2022 – June 2024

Full Stack Software Engineer

- Head of engineering for a feature-rich Flutter mobile application deployed to thousands of customers
- Architected and built API micro-services using Flask, SQLAlchemy, Docker, Kubernetes, GitHub Actions, and PostgreSQL on Amazon EKS
- Built ReactJS components for the company's web application

SKILLS

- **Languages:** Python, JavaScript/TypeScript, Dart, SQL, Java, Ruby, HTML/CSS
- **Frameworks:** Ruby on Rails, Flask, React, Next.js, Vue.js, Flutter, Node.js, SQLAlchemy
- **Infrastructure:** Docker, Kubernetes, AWS (EKS/RDS/Lambda/Step Functions), PostgreSQL, Redis, Sidekiq, GitHub Actions, CircleCI, BigQuery, GCP, Self-Hosted Machines
- **AI/ML:** LangGraph, Gemini API, OpenAI API, RAG pipelines, embedding models, logistic regression classifiers, MCP

EDUCATION

Union College, Schenectady, NY

June 2022

Bachelor of Science in Computer Science

- Minor in Economics, Minor in Psychology | Dean's List 2020 | Presidential Scholarship
- NCAA Division III Baseball (September 2018 – May 2022)