Noah Roberts

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PROFESSIONAL SUMMARY

Computer science graduate who has spent the past year working in healthcare IT: deploying EHR systems and clinical hardware inside one of the nation's top-ranked children's hospitals and building AI-driven automation and agent tooling for a home care agency. It's reinforced why I want a career in this space. Getting the technology right has a direct, tangible effect on patients and the people caring for them.

EXPERIENCE

Ann & Robert H. Lurie Children's Hospital of Chicago **March 2026 – Present**
Deployment Technician — Contract via PSM Partners *Chicago, IL*

- Contributing to a hospital-wide technology refresh, deploying and configuring roughly 1,400 clinical and administrative workstations: imaging devices, migrating user data, and installing specialty software including Epic Hyperspace, the hospital's EHR interface.
- Build, update, and validate Epic's local workstation (LWS) records, the device profiles that authenticate each machine to the EHR, confirming successful charting access before returning devices to clinical staff and supporting uninterrupted patient documentation.
- Diagnose and resolve Epic-integrated printing issues across clinical units, working directly with Lurie Children's internal IT team to maintain reliable device-to-EHR connectivity for label, badge, and clinical printers.
- Provide hands-on setup support and walkthroughs for nurses, physicians, and patients' families during device transitions, translating technical steps into clear, non-technical guidance within fast-paced clinical settings.

Seniors Helping Seniors – Greater Naperville **Aug 2025 – Feb 2026**
Freelance Software Engineer, Internal Operations Platform & AI Agent *Remote*

- Designed and built an internal platform for a home care agency's hiring, lead follow-up, and caregiver scheduling: database, Google sign-in with four user roles, interface, and separate test and production environments. It syncs data from their CRM (WelcomeHome) and EHR (WellSky), which remain the source of truth.
- Automated applicant screening: each application is scored against knockout rules and a versioned rubric, including drive time, then sorted into Rejected, Review, or Phone Screen. This saves the owner hours every week of manual filtering.
- Automated lead follow-up: 26 messages and calls over 108 days, with a first text within 5 minutes of inquiry. It stops when a family replies, and a send log prevents duplicate messages.
- Built a caregiver coverage tool from daily WellSky reports that flags under-served clients and ranks replacement caregivers by skills and drive time.
- Built an AI agent on a remote MCP server that lets the owner ask questions in plain English about hiring, leads, and coverage, take actions through the CRM API and the platform, and search the agency's own documents (RAG): home care licensing rules, HIPAA policies, SOPs and incident reporting, the caregiver handbook, training requirements, client contracts, and sales scripts and pricing.
- Used the Claude API to draft personalized follow-up messages, validated by code checks and an LLM-as-a-judge before sending, which saves the owner hours of writing messages each week.

The Mx Group **Burr Ridge, IL**
Data Analyst Intern *May 2024 – Aug 2024*

- Built dashboards and reporting in Salesforce Datorama and Tableau to support marketing strategy for enterprise clients, including HF Sinclair.
- Cleaned, transformed, and audited large datasets in Microsoft SQL Server to maintain data integrity across client reporting pipelines.
- Wrote Python automation scripts to retrieve and process SEO data from SEMrush, reducing manual reporting workload.

Front End Development Intern *May 2023 – Aug 2023*

- Collaborated with backend developers to integrate API-driven data feeds into client-facing B2B platforms, ensuring accurate data rendering across dynamic dashboards.
- Participated in daily Scrum meetings and managed tasks in Jira/Trello, coordinating with designers, QA, and backend teams to deliver projects on schedule.

EDUCATION

Iowa State University — Bachelor of Science, Computer Science **Aug 2021 – May 2025**
Ames, IA

- Events Coordinator (2025): helped organize the club's powerlifting meet fundraisers, including Kilos for Kids and Bar Wars, with proceeds benefiting St. Jude Children's Research Hospital. Grew the club to its largest membership in program history.
- Webmaster (2024): built the club's gym check-in and attendance-tracking website.

Relevant Coursework: Design and Analysis of Algorithms, Database Management Systems, Principles of Artificial Intelligence, Introduction to Machine Learning, Operating Systems, Discrete Computational Structures, Probability and Statistics for Computer Science, Software Development Practices

TECHNICAL SKILLS

Languages & Frameworks: Python, TypeScript, JavaScript, Java, SQL, C++, React, Vite, Django, Spring Boot, Node.js, Deno

AI & Agentic Systems: Claude API (Anthropic), structured outputs, LLM-as-judge validation, prompt guardrails, MCP server development (remote MCP over Streamable HTTP, Python/FastMCP), Retrieval-Augmented Generation (RAG), Voyage AI embeddings, hybrid search (BM25 + vector similarity, Reciprocal Rank Fusion), Claude Code

Healthcare & Clinical Systems: Epic Hyperspace, Epic LWS (workstation record) management & charting validation, WellSky (EHR), WelcomeHome (healthcare CRM)

Databases: PostgreSQL, Supabase, pgvector, MySQL, SQL Server, SQLite, MongoDB, Pandas, NumPy

APIs & Integration: REST APIs, webhooks, Gmail API, GoTo Connect (SMS), Google Routes API, Calendly, Zapier (Platform/CLI, Tables, private apps), Celery, Redis, Playwright, Selenium

Cloud, Security & Infrastructure: Supabase (Edge Functions, Auth, scheduled jobs), OAuth 2.1 (PKCE, Dynamic Client Registration), role-based access control, audit logging, Git, GitHub, GitLab, Docker, Linux

PROJECTS

Arbadillo — AI-Driven Sports Betting Data Platform **GitHub**

- Engineered a distributed scraping and ETL pipeline (Scrapy, Celery, Redis) with containerized workers for high-frequency, real-time sportsbook odds collection across multiple leagues and providers.
- Built a fully normalized PostgreSQL data warehouse for historical event, market, and outcome data to support queries and ML workflows.
- Developed a RESTful API with Django REST Framework for secure external access to aggregated odds and historical datasets.
- Built a quantitative modeling and backtesting framework combining sportsbook odds with derived team and player statistics to train ML models, simulate historical games, and compute positive-EV betting signals.

JChess **GitHub**

- Created a Java-based chess engine with an AI opponent using Minimax and alpha-beta pruning.
- Integrated optimization techniques including Zobrist Hashing, Transposition Tables, and Quiescence Search to improve search performance and reduce computation time.
- Developed a Swing-based GUI for interactive gameplay and move visualization.

Ankr — Toy Programming Language in C++ **GitHub**

- Designed and implemented a dynamically typed toy programming language in C++, exploring parsing, interpretation, and compiler fundamentals.
- Built a working interpreter supporting variable declarations, arithmetic operations, control flow (loops and conditionals), and function definitions.
- Developed a lexer and parser converting source code into abstract syntax trees (ASTs) for execution.

ISU Weight Club Check-In Platform **GitHub · Website**

- Built and maintain a gym check-in and attendance-tracking platform for the Iowa State Weight Club, used consistently by around 100 active members to log visits and track usage trends.
- Replaced manual sign-in sheets and ad hoc reporting with automated data capture and real-time analytics, reducing scheduling confusion for club leadership.