Elijah Lewis
Machine Intelligence & Web Technologies

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Education.

University of Virginia   **2019**
Bachelors in Computer Science
Awarded High Distinctions for my machine learning research

Experience.

Technical Cofounder of 4RL   **Apr 2024 - Present**
Solving the loneliness epidemic through an AI-powered social toolkit connecting people, places, and experiences to empower every unique community. Engineered the MVP using real-time technologies for local events in D.C. (see 4RL)

Founder of Codestache   **Sep 2022 - Apr 2024**
Built a productivity SaaS startup. Featured on Product Hunt (see launch)

R&D Team Lead, Epic Health   **Sep 2019 - Jul 2022**
Led the infrastructure team developing a new app achieving ~20,000 lab orders monthly. Migrated code to React + scaled for ~250 million patient records exchanges per month. Redesigned the app UI to boost clinical training promoting an educational video on advanced features. This initiative resulted in the video becoming the company's fastest-growing educational resource.

Software Engineer Intern, Epic Health   **May 2018 - Aug 2018**
Developed a backend data visualization feature using MSSQL, C#, JavaScript, and M to enhance medical research on social determinants of health. Designed the entire data model, enabling detailed analysis and insights for researchers

Research.

Attrition Prediction to Reduce Anxious Thinking, UVA
Identified high-risk patients with ML that would be optimized to 91% accuracy (paper)

Search Engine Sentiment Analysis of Customer Reviews, UVA
Scaled research network by migrating to microservice architecture

Projects.

Internet of Things Search Engine (link)
Developed a tool for campus maintenance workers to search sensor data for temperature, CO2 levels, etc

Bookish (link)
AI semantic search engine with over 9,000 books to show unique ways of using LLMs

Dex (link)
Personal contacts manager to keep track of networking connections

Immigration Data Visualization (link)
Analyzed how US immigration has changed over the years

Technologies.

Databases
SQL, MySQL, Postgres, Mongo, Vector databases

Web
Javascript, Typescript, NextJS, Astro, SolidJS, React, React Native, Electron, HTML, Amazon AWS, Serverless Stack (SST), Supabase, REST, RPC, Go

UI
CSS, TailwindCSS, Sass/Scss, Bootstrap, Figma

Machine Learning and Artificial Intelligence
Python, NumPy, OpenAI, LangChain, Pinecone, HuggingFace