

# Elijah Lewis

Machine Intelligence & Web Technologies

aka roze

roze.dev

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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

### 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, CSS, TailwindCSS, Bootstrap, Amazon AWS, Serverless Stack (SST), Supabase

### Machine Learning and Artificial Intelligence

Python, NumPy, OpenAI, LangChain, Pinecone, HuggingFace