

Alex Kreidler

Software Engineer

I'm focused on making data and machine learning more accessible to help solve global problems.

Skills

10 years of programming experience
3+ years of internships

I'm almost always building something, or reading Hacker News or Github. I like fast-paced, collaborative environments where I can learn.

Languages

Javascript/TypeScript, Python, Golang, Rust, Swift, C, C++, Java

Machine Learning (ML) and Artificial Intelligence (AI)

PyTorch, Tensorflow, numpy, pandas, scikit-learn, Qdrant, HuggingFace transformers, OpenAI GPT, Langchain

Data Systems

Postgres, Kafka, MongoDB, Jena, Virtuoso, SQL, SPARQL, vector databases

Web & Mobile Development

HTML, CSS, React, redux, Angular, electron
React Native, ARKit, CoreML

DevOps/Cloud tools

Docker, Terraform, Kubernetes, Helm, git, Google Cloud, AWS

Languages

Spanish - *Advanced (CEFR Level C1)*

Portuguese - *Beginner*

Interests

Writing and producing music, guitar, piano, bass, drums
Urban Design/Transportation

Experience

Open Knowledge Foundation - Intern

JUNE 2021 - AUGUST 2021, Remote

- Worked on CKAN, data portal software used by governments and nonprofits around the world, using Python, Django, and Postgres
- Improved the CLI for Frictionless Data transformation tools

Decipher Technology Studios - Intern

JUNE 2019 - JANUARY 2021, Alexandria, VA

- Updated core features of the service mesh including the control plane state reconciliation algorithm in Golang
- Added zero-trust certificate functionality for Kubernetes
- Assisted AI/ML team with log anomaly detection model (recurrent autoencoder) in PyTorch
- Wrote several Go and Python tools and improved the Helm charts that deploy the Gray Matter service mesh product

Projects

Loqu - <https://github.com/loqudata>

Loqu is an open source tool for data exploration and visualization that includes 700 million data series from organizations around the world.

Hackathons - <https://devpost.com/aakreidler>

SEPTEMBER 2018 - Present

- Wrote apps with React, Redux, MobX, and Electron
- Built backends using Express in NodeJS, FastAPI in Python, GraphQL, MongoDB
- Created a native iOS app with Swift

Projects (2018-Present)

Trained transformers with reinforcement learning, researched and tested open information extraction models like OpenIE6, built a chatbot for language learning, did data analysis on affordable housing in DC, built a distributed scraping tool in Rust, built a collaborative spreadsheet-like interface for databases, a survey tool, a System UI/Chakra UI theme designer, and a tool to benchmark machine learning models.

Awards

First Place - HackPenn, HackBI II, **Best UX/UI** - VTHacks 7

Samsung 'Breakthroughs that Matter' Award - MIT Hacking Medicine DC

Winner - Health & Well-Being Track - HackNYU

Best Use of Google Cloud - HackNC

Best Accompanist - National Youth Choir Festival at Carnegie Hall, Maryland Regional Choir Festival

National Merit Scholarship Finalist, U.S. Presidential Scholar Candidate

Education

University of North Carolina at Chapel Hill

2022 - 2026

Pursuing Bachelors in Computer Science.

Courses: Discrete Math, Deep Learning, Data Structures and Analysis, Multivariable Calculus, Economics, Urban Planning, Portuguese

Independent study: Abstract algebra, topology, measure theory and statistics, machine learning