

Employment

Software Engineer

Epic

Jun 2020 – Present

- Enabled big data integration for machine learning systems for hundreds of Epic and healthcare data scientists
- Developed RESTful web services and web GUIs in **.NET** and **Typescript** for network and cloud troubleshooting, freeing up time for dozens Epic engineers
- Maintained and troubleshooted infrastructure for statistical learning systems used by healthcare providers

Software Engineer Intern

Cerner

May 2019 – Aug 2019

- Developed a **React** component for modifying annotation properties that was used by thousands of healthcare professionals
- Interfaced with UI/UX teams to design the enterprise media viewer for maximal user accessibility
- Built unit tests with **Jest** and **Docker** for meeting acceptable code coverage and use cases

Education

Cleveland, OH

Case Western Reserve University

2016 – 2020

- **B.S. in Computer Science**
- Coursework: Machine Learning; Computer Networks; Operating Systems Design; Probabilistic Graphical Models; Algorithms, Computer Architecture, Data Structures, Causal Learning
- Dean's List: Fall 2016; Spring & Fall 2017; Spring & Fall 2018

Projects

HMM Spell Checker

- Scraped data from online text repositories for emission/transmission distributions for a Markov network
- Designed a Hidden Markov Model in **Python** that used maximum likelihood Viterbi alignment to autocorrect typos in a sentence

Blockchain P2P Network

- Built a peer-to-peer network system in **Golang** that used blockchain technology to transmit encrypted files between users
- Designed a TUI (text-based-user-interface) allowing users to upload and download documents across the network

Languages and Technologies

- **Languages:** Javascript, Typescript, Python, C#, Java, Golang, SQL
- **Frameworks:** React, .NET, Jest, Rest, Numpy
- **Tools:** Git, SVN, Azure, Linux, Docker