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Topics of Interest:

Information Retrieval
Natural Language Processing
P2P Computing
Fault Tolerant Design
Distributed Systems
Applied Mathematics

Experience**Microsoft — Summer 2018**

Explorer Intern under Bing Engineering. Developed a dashboard for our stream processing pipeline. Developers can visualize events, search logs, and manage their compute resources (scale workers, deploy/rollback builds, view history).

Contract Software Engineer, National Nursing & Rehab — Summer 2017

Developed an automated system to transfer patient records from the company's legacy EMR system to an in-house database. Collaborated with the developers of their current EMR system to design a hiring service integrated with the EMR, payroll, and employee benefits systems.

Education**Texas A&M University — May 2020 GPA: 3.4**

B.S. Computer Science with Minors in Mathematics and Philosophy.

Projects**Thesaurus API**

A now retired Python interface for thesaurus.com. Used by NLP researchers at National Taiwan University, Lakehead University, Booz Allen Hamilton and Samsung. Taken down after receiving a letter from their lawyers. I wrote a haiku for its funeral.

kiku.media

A graph-based music recommendation engine for titles on bandcamp. After scraping a graph of 3.8mil vertices and 36.1mil edges, we used overlap centrality to create an algorithm linear with PageRank, except faster. Built using Elixir and Rust.

Sue

A programmable chatbot for iMessage and Signal. Users can define variables and use them later as command arguments. Supports polls, games, and plugins.

TripVR

A tool for exploring the 3D geometry of cities on OpenStreetMap, allowing users to navigate an annotated map of attractions, hotels and restaurants in virtual reality. Made in 24 hours for TAMUHack 2018.

Skills

Languages: Python, C++, Elixir, C#, C, Erlang, Haskell, Matlab
Databases: Elasticsearch, Neo4j, PostgreSQL
Frameworks/Libraries: OpenGL, Flask
