ROBERT DOMINGUEZ

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Fields of Interest

Information Retrieval
P2P Computing
Fault Tolerant Design
Distributed Systems
Messaging Services
Film, Graphics and Games

Skills

Proficient in
- Python
- C++
- Elixir
- C#

Experience with
- Javascript
- Flask
- Erlang
- Elasticsearch
- OpenGL

Experience

Microsoft *Bellevue, WA*   05/2019 - 08/2019
SWE Intern, Bing Answer Triggering
- Independently developed a new method for mining and whitelisting successful query patterns across multiple languages and answer scenarios.
- Researched cutting edge text-chunking and sequence labeling techniques for discovering typed slots in these query patterns (city, airline, language, etc.).
- Performed production A/B tests for my new model, showing greatly improved coverage and user satisfaction in international markets.

Microsoft *Bellevue, WA*   05/2018 - 08/2018
Explore Intern, Bing Answer Relevance
- Developed a dashboard for our stream processing system.
- Features included: visualize and trace the lifecycle of events in our data pipeline, search and filter logs with highlighted errors, deploy/rollback cached builds to servers, view deployment history of our production environments.

National Nursing & Rehab *San Antonio, TX*   05/2017 - 08/2017
Contract Software Engineer
- Created an automated tool to migrate patient records from a legacy EMR system to an in-house database.
- Collaborated with the developers of their EMR system to design a hiring service integrated with the payroll and employee benefits systems.

Education

Texas A&M University — May 2020   GPA: 3.4 / 4.0
B.S. Computer Science with Minors in Mathematics and Philosophy.

Projects

Thesaurus API
A Python interface for thesaurus.com. Filter synonyms by relevance, part of speech, vulgarity and formality. Used by NLP researchers at National Taiwan University, Lakehead University, Booz Allen Hamilton and Samsung. 7500+ installs through pip.

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

TripVR *(Made in 24 hours for TAMUHack 2018)*
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.

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