Austin Zhang

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EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN
BS in CS and Linguistics
Cum. GPA: 3.47 / 4.0
Expected 2021

LINKS

Github: github.com/Zenith00
LinkedIn: linkedin.com/in/austinz2
Website: zenith.dev

COURSEWORK

UNDERGRADUATE
(CS107) Data Science
(CS126) Software Design
(CS173) Discrete Structures
(CS233) Computer Architecture
(CS225) Data Structures
(CS241) System Programming
(CS361) Prob & Stats for CS
(CS374) Intro to Algorithms
(CS398) Applied Cloud Computing
(CS498) Applied Machine Learning

SKILLS

LANGUAGES
Proficient
Python • Java • Javascript • C
Familiar
R • HTML/CSS • Solidity • C++

FRAMEWORKS/OTHER
Proficient
NodeJS • MongoDB •
Docker • SQL
Familiar
React • Apache Spark
PostgreSQL • Redis

EXPERIENCE

ZOOM | Software Engineer in NLP - Intern
6/11-8/16 2019 | San Jose, CA
Python: Flask, sqlalchemy, django, tensorflow, keras • AWS SQS, S3 • Docker
- Implemented Flask-based web microservices for integrating a ML classification pipeline
- Deployed microservices as docker images into a Kubernetes cluster for production
- Leveraged Django and MySQL to create metadata stores

BLOCKSEER | Software Development Intern
github.com/Zenith00/swaps-service
6/27-8/21 2018 | Sunnyvale, CA
JS: Node.js, Express, bitcoinjs • Solidity • Redis
- Developed for and contributed to Submarine Swaps, a utility that allows for on-chain to off-chain trustless invoice payment through the lightning network, supporting BTC, LTC, and BCH inputs and BTC/LTC LND invoices.
- Deployed a Submarine Swaps server into a production environment.
- Wrote regression tests using Node-Tap

PROJECTS

MENTIONVIZ
nadir.space/mentionviz3d
2018-2019
JS: React, vis.js, Python: NetworkX • R: visnetwork, igraph
- Created network visualizations for social communities on a Discord server based on mentions scraped from text.
- Raw data scraped, and parsed in Python+Pandas and managed using PostgreSQL. Graph analysis, reduction, and intermediate visualization produced in R+igraph+visnetwork. Final output made with React and Vis.js

DISCORD BOTS
github.com/Zenith00/discbots
2017 - Ongoing
Python: Discord API, MongoDB, PostgreSQL
- A collection of discord bots providing various tools and utilities to server owners & users. Currently serving over 160k concurrent users.
- Leverages Python, Redis, and PostgreSQL to collate and organize >100M processed messages.
- Uses Spacy, sklearn, and visualization libraries to provide services and analytics to users.

ORGANIZATIONS

ILLINI SOLAR CAR | Member
2017 – Ongoing | Urbana-Champaign, IL
A project that designs, builds, and races electric solar cars in international competitions. Contributed to telemetry and simulation programs used to measure data such as solar cell voltage in order to produce performance analytics and driver assistance.