

ETHAN FAN

SOFTWARE ENGINEER | DATA SCIENTIST

EXPERIENCES

- 06/2023
|
07/2023
- **Full Stack Developer Intern**
EDU Africa □ Cape Town, South Africa
 - Seven-week global internship experience through the University of Florida and EDU Africa
 - Lead frontend engineer and full stack developer of a small team for the Butterfly Art Project and the Vrygrond Community Trust
 - Built a MERN Stack web application following the Agile framework
 - Built a community map consisting of non-profit organizations that allows for the 15,000 people of Vrygrond to find services they require
 - Using open source and low data components, I was able to build the application at a minimum cost. The Vrygrond Community Trust's only cost is a subscription for Microsoft Azure to host the web application
- 05/2023
|
08/2023
- **Software Engineer Intern**
Markable Creators □ Spokane, Washington
 - A remote software engineering intern using Prefect, the open-source workflow management library for Python
 - Helped manage and execute their data processing pipelines
 - Upgraded their system from Prefect 1.0 to Prefect 2.0
 - the Prefect Cloud component and Docker to automate the data processing and updating
 - Created an addition to their web application that generates graphs using sales data to help visualize their social media influencers' performance
 - Used Python libraries, Pandas and Streamlit

PROJECTS

- 06/2023
|
07/2023
- **Vrygrond Community Map**
EDU Africa
 - A community map consisting of non-profit organizations for the people of Vrygrond
 - Written using JavaScript, TypeScript, React, NodeJS, MongoDB
 - Includes functions, search by name, search by service, and pin on map
 - Created using Agile framework
 - Living example here: <https://vrygrond.zy-j.com/>
- 01/2023
|
05/2023
- **GatorGuessr**
University of Florida
 - A simplified version of the popular online game GeoGuessr, but tailored specifically to University of Florida
 - Written Using TypeScript, Golang and hosted using Microsoft Azure Cloud Server
 - Includes account registration, sign in, navigation, street view, guessing, scoring, and leaderboard functions
 - Check it out here: <https://github.com/Ethan12103/GatorGuessr>
- 01/2024
|
05/2024
- **Neuronal Analysis**
University of Florida
 - Bioinformatics and data analysis research project
 - Research Question: How do the transcriptional profiles of neurons from the Posterior Medial (PM) region of the mouse visual cortex compare to those of other regions, and how can these profiles inform models of neuronal network behavior and interactions within the cortex?
 - Built PCA and UMAP Plots to compare the transcriptional profiles of neurons
 - Built K-means Clustering and Support Vector Machine Models to determine if distinct gene expression patterns that differentiated PM neurons from other groups existed

EDUCATION

- 2021
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Present
- **B.S. in Computer Science**
University of Florida □ Gainesville, Florida
Minor in Statistics

CONTACT INFO

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SKILLS

Frontend
HTML, CSS, JavaScript,
TypeScript, Angular, React

Backend
Python, NodeJS, MongoDB,
Golang, Microsoft Azure

Other Languages and Skills
C++, C, Java, GIT, Linux

Data Analysis
R, Python, Pandas