

Alex Preston

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EDUCATION

Southern Methodist University

Dallas, TX

Lyle School of Engineering, Dedman College of Humanities

May 2022

Bachelor of Science, Computer Science; Bachelor of Science, Statistics

- Cumulative GPA: 3.2/4.0
- College tuition paid for through *Second Century Scholars Program* (merit-based scholarship)

SKILLS & INFORMATION

Computer: Python, Django, C++, Java, Git, Javascript, Adobe Photoshop, Adobe Premiere Pro CC

Interests: natural language processing, deep learning, blogging, running, cooking, books

WORK EXPERIENCE

Securboracion

Melbourne, FL

Development Intern

May 2019 - June 2019

- Created novel Python micro-service to automatically find nearest weather station (including redundancy checking when data was not available)
- Fetched weather data from government API based on plane crash date and location resulting in Excel report
- Performed data cleanup in Python to increase quality of weather station data by removing fuzzy duplicates, removing unnecessary columns, and manipulating data when needed
- Worked with web designer to enhance front-end design of search engine to make tool more user-friendly

JM Real Estate

Melbourne, FL

Real Estate Intern

Nov 2016 - June 2017

- Recorded and edited aerial footage of real estate properties using DJI Phantom 4 and Adobe Premiere Pro to be used in company website and marketing materials
- Created spreadsheet to analyze timing and payment of invoices to ensure on-time collection
- Designed and created promotional fliers to be used in company website and marketing materials

PROJECTS

News Aggregator

Melbourne, FL

Personal Project

January 2020

- Created a content aggregator in Python and Django to scrape headlines from various news sites to create a curated news site.
- Automated back-end tasks to have scrapers continuously pull new headlines in real time.

Supreme Court Search Engine

Dallas, TX

Course Work

November 2019 - December 2019

- Designed the architecture and wrote a search engine in C++ using an inverted file index
- Implemented Boolean operators for query processing of user input.
- Parsed input JSON files and law documents were returned using frequency ranking.

Autonomous Robot

Dallas, TX

Course Work

January 2019 - May 2019

- Designed and created robot capable of competing in obstacle course, including temperature sensing, conductivity testing, object collection, and movement
- Responsibilities included frame construction and electrical wiring of robot
- Performance of robot resulted in placing 2nd out of 14 total teams competing in obstacle course

LEADERSHIP & COMMUNITY SERVICE

Robotics Club

Dallas, TX

Member

January 2020 - Present

- Creating image collection system with Python and Django to extract data from autonomous drone to then automatically sort images based on size, orientation, color, and shape