

Justin Sech

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Technical Skills

Languages

Python, Java
Familiar: C/C++

Data Science

pandas
scikit-learn
pytorch
numpy
machine learning
natural language processing
Mechanical Turk
Amazon Web Services

Web Dev

HTML5
JavaScript
React
CSS
Flask
SQL

Additional

Team Management
Proactive Communication
Public Speaking & Presentation

Relevant Coursework

Machine Learning
Natural Language Processing
Data Science
Object Oriented Software Eng.
Probability & Statistics
Artificial Intelligence
Algorithms
Data Structures
C++/C Programming

Hobbies

Lead guitarist in a band
Home Craft Brewing
{Snow, Skate, Wake}boarding
Scuba Diving

Education

Johns Hopkins University, M.S.E in Computer Science *December 2021 (expected)*
Focus in Machine Learning

Johns Hopkins University, B.S in Computer Science *December 2020*
Minor in Applied Mathematics & Statistics
GPA: 3.78 | All-Semester Dean's List

Experience

Natural Language Processing Research Intern *May 2020-Present*
JHU Center for Language and Speech Processing (Dr. Mark Dredze)

- Extract natural language features from billions of Tweets to build predictive machine learning models to identify civil unrest events on Twitter
- First author of the paper written on the above work (See Publications below)
- Nominated for a CRA Outstanding Undergraduate Researcher Award (pending)

Machine Learning Engineer Intern *Summer 2019*
SoKat Consulting

- Developed an explainable machine learning technology using natural language features extracted from PDFs to determine federal grant application awardees
- Work contributed to a 2019 Government Innovation Award for the Public Sector

Computer Science Instructor *February 2019-Present*
Juni Learning

- Teach Advanced Python (data structures, algorithms, webscraping, API skills, data visualization), Object Oriented Programming (Java), and Programming Fundamentals in individualized, one-on-one video-call lessons

Director of Communications *May 2020-Present*
TEDxJHU (officially licensed TEDx organizer)

- Lead a team of 10 to supervise the development of 3-8 TEDx talks per semester
- Contributed directly to 8 TEDx talks prior to becoming Director (Sep. '17 – May '20)

Projects (see: github.com/jmsech)

TrackMatch – Spotify API Python Flask app to compare music tastes between users

StudyBuddy – Full-stack Java/React.js web app to recommend optimized group meeting times with dynamic programming; integrated with Google Calendar API

Publications

Sech, Justin; DeLucia, Alexandra; Buzcak, Anna L; Dredze, Mark. Civil Unrest on Twitter (CUT): A Dataset of Tweets to Support Research on Civil Unrest. The 6th Workshop on Noisy User-generated Text (W-NUT). November 2020