

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
Amazon Mechanical Turk
Amazon Web Services

Web Dev

HTML5
JavaScript
React
CSS
Flask
SQL

Additional

Linux, git
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

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