

# Dylan P. Jackson

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 Incoming Software Development Engineer at Amazon

## EXPERIENCE

### AMAZON | SOFTWARE DEVELOPER ENGINEER INTERN

June 2021 - August 2021 | Seattle, WA

- Implemented a generic benchmark framework to monitor resource utilization for Alexa's HypRank and Shortlister models
- Enabled scientists and engineers to more efficiently develop iterations on the training stages for these models

### WAYFAIR | PEOPLE ANALYTICS CO-OP

January 2021 - June 2021 | Boston, MA (Remote)

- Owned analytical reports on employee data, providing insight into employee performance based on company goals
- Used R, Python, SQL, analytical tools, and statistical methods to answer open ended questions about employee performance

### MITRE | TECHNOLOGY AND INNOVATION INTERN

May 2019 - August 2019 | Bedford, MA

- Utilized Microsoft Bot Framework and Microsoft Graph to deploy internal chatbot in Microsoft Teams to increase internal hiring efficiency. Used IBM Voice Gateway and data analytics to improve speed of help desk response time
- Served as project lead to develop proposal for voice assistant to assist onboarding of new co-ops

## PROJECTS

### CSH INTRODUCTORY EVALUATOR | PYTHON / NUMPY / POSTGRESQL / MACHINE LEARNING

- Tertiary Machine Learning classification model developed for RIT's Computer Science House, created and trained with numpy / scipy, data curated and cleaned from PostgreSQL server
- Predicts the evaluation result of a new applicant to the Computer Science House intro process, with 83% accuracy
- <https://github.com/DylanPJackson/csh-intro-evaluator>

### COVID FACTORS | PYTHON / R / DATA ANALYSIS / DATA ENGINEERING

- Created automated reporting tool to analyze COVID-19 death rate prediction models performance to aid in recommendation and understanding of which model is most reliable at any time
- Manually curated and visualized data, created a weighted average ensemble model which outperforms current models
- [https://github.com/DylanPJackson/covid\\_factors](https://github.com/DylanPJackson/covid_factors)

### LIL LEXIE | PYTHON / NLTK / NLP / ALEXA

- Developed backend of Alexa skill to create a rap based off of a user's rap, which won Best Alexa Skill at HackDartmouth 2019
- Leverage nltk's trigram tagger to identify parts of speech, create intelligent response using appropriate parts of speech
- [https://github.com/DylanPJackson/lil\\_lexie](https://github.com/DylanPJackson/lil_lexie)

### HAPI | PYTHON / FLASK / TWEETPY / GCP API

- Python Flask based Google Cloud Platform Web App using the GCP Natural Language API to perform Sentiment Analysis on tweets pulled using the Tweepy library and Twitter API. Presented at RIT's hackathon, Brickhack 2019
- Given a username or hashtag, presents average positivity, number of positive tweets, or most negative tweet
- <https://github.com/jtkrumlauf/Hapi>

## EDUCATION

### ROCHESTER INSTITUTE OF TECHNOLOGY

BACHELORS IN COMPUTER SCIENCE

2017 - 2021 | Rochester, NY

RIT AI CLUB : PRESIDENT

COMPUTER SCIENCE HOUSE : EVALUATIONS DIRECTOR

NEW STUDENT ORIENTATION : ORIENTATION SUPERVISOR

COMPUTER SCIENCE DEPARTMENT : STUDENT AMBASSADOR

HONORS PROGRAM

### RELEVANT COURSES

COURSERA : ANDREW NG'S MACHINE LEARNING

COURSERA : JOHNS HOPKINS' DATA SCIENCE

RIT MATH 251 & 252 : PROB & STATS I & II

## LANGUAGES & SKILLS

### PROFICIENT

Python | R | SQL

Matlab | Java | C

numpy | scipy | matplotlib | pandas

Keras | Tensorflow | scikit-learn | pytorch

Microsoft Bot Framework

GCP API | AWS

Data Viz | Data Analysis | Modeling

Git | Vim | JetBrains IDE | Scrum

MacOS | Linux | Windows

### EXPERIENCED

HTML | CSS | JavaScript

C# | C++ | Flask