# **JASON BAK**

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#### **EDUCATION** -

Carnegie Mellon University | B.S. in Statistics/Machine Learning Minors in Computer Science + Chemistry

Pittsburgh, PA Expected Dec '19

## **EXPERIENCE - INDUSTRY**

## Intuit | Software Engineer Intern - Data Platforms

Mountain View, CA

Spring, Java, EMR, React, JavaScript, MySQL, CloudWatch

Summer '19

- · Added EMR lifecycle functionality to a console and dashboard used by Intuit data scientists/analysts.
- · Worked across teams to understand and provide solutions to EMR painpoints regarding big data analysis.

## Amazon | Software Development Engineer Intern - Al Labs

Seattle, WA

C++, Java, Python

Summer '18

- · Implemented internal shingling of data for the Random Cut Forest (RCF) library.
- · Extended an API to granulize RCF scores to provide per-dimension values.

## Fulcrum Global Technologies | Legal Software Developer Intern - Startup Labs

Chicago, IL

ASP.NET MVC, MySQL, DevExpress, MarkLogic

Summer '17

- · Built a dynamic model of a law firm using ASP.NET Entity Framework.
- · Designed and built legal dashboards using ASP.NET MVC and DevExpress.

## **EXPERIENCE - ACADEMIA**

## Carnegie Mellon School of Computer Science | Teaching Assistant

Pittsburgh, PA

Taught labs/recitations, held office hours, and graded coursework for:

ML 10-315 - Introduction to Machine Learning

Fall '19

CS 15-122 - Principles of Imperative Programming (i.e., Data Structures)

Fall '17

## Institute for Software Research | Research Assistant - Machine Learning

Pittsburgh, PA

· Wrote benchmarking tests of partitioned deep neural networks across devices.

Spring '18

#### PROJECTS —

## Analysis of my personal journal

[ Python, NTLK, Stanford CoreNLP, TextBlob, textgenrnn ]

Analyzed my personal journal of four years (350+ pages) to identify trends that promote happier writing, which may be correlated to a happier life!

Knowledge graph of the 2017 political landscape [Spark, Kafka, NLTK, ElasticSearch, Flask, Angular2]

Received overall 2nd place (\$1024) at HopHacks Spring '17

Streams news articles in real-time and tags related entities. After constructing knowledge graphs, hidden connections between businessmen, politicians, etc. are made accessible via the Nexus API and web client.

## Messenger-based political assistant bot

[ Django, api.ai, NLTK, Microsoft Cognitive Services ]

Received APT Sponsor Award (\$600) at TartanHacks Spring '17

Provides a political news digest upon request across FB Messenger. Based on the user's interest, they can seamlessly contact their senators, donate to causes, or get involved in local activism to make a difference.

## **Keyboard-based tab navigation Chrome extension**

[ JavaScript, HTML/CSS ]

Enables users to quickly navigate between tabs with highly-customizable keyboard shortcuts. Removes the need for searching through a haystack of tabs and making tabs of websites already open.

#### SKILLS -

Languages Java · Python · C/C++ · JavaScript

Tools & Frameworks React · Spring · SQL · Unix · Jekyll · Git · Vim · HTML/CSS · LATEX

**Design** Sketch/Figma · wireframing · paper prototyping · storyboarding

HOBBIES daily journaling · adventure photo/videography · marathon running · urban dance