

JASON BAK

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EDUCATION

Carnegie Mellon University | B.S. in Statistics and Machine Learning
Minor in Computer Science

Pittsburgh, PA
Dec '19

EXPERIENCE - INDUSTRY

Intuit | Software Engineer Intern - [Data Platforms](#)

Mountain View, CA
Summer '19

Spring, Java, EMR, React, JavaScript, MySQL

- 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 pain points regarding big data analysis.

Amazon | Software Development Engineer Intern - [AI Labs](#)

Seattle, WA
Summer '18

C++, Java, Python

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

Fulcrum Global Technologies | Legal Software Developer Intern - [Startup Labs](#)

Chicago, IL
Summer '17

ASP.NET MVC, MySQL, DevExpress, MarkLogic

- 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
Spring '18

- Wrote benchmarking tests for deep neural networks across hybrid environments.

PROJECTS

Analysis of my personal journal

[Python, NLTK, 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, AYLIEN, 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 · R · C/C++ · JavaScript · SML

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

Design Sketch/Figma · wireframing · paper prototyping · storyboarding

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