

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

HubSpot | Software Engineer - [Infra Costs](#)

Java, MySQL

· Building tools to understand and better control HubSpot's overall AWS and GCP infrastructure spend.

Cambridge, MA

Spring '20 - current

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

Java, React, Redux, 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.

Mountain View, CA

Summer '19

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

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.

Seattle, WA

Summer '18

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

C#, MySQL, JavaScript

· Built a dynamic model of a law firm using ASPNET Entity Framework.

· Designed and built legal dashboards using ASPNET MVC and DevExpress.

Chicago, IL

Summer '17

EXPERIENCE - ACADEMIA

Carnegie Mellon School of Computer Science | Teaching Assistant

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

ML 10-315 - Introduction to Machine Learning

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

Pittsburgh, PA

Fall '19

Fall '17

Institute for Software Research | Research Assistant - Machine Learning

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

Pittsburgh, PA

Spring '18

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.

SKILLS

Languages Python · Java · R · C · C++ · JavaScript · SML

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

Design Sketch/Figma · wireframing · paper prototyping · storyboarding

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