JASON BAK

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EDUCATION

Carnegie Mellon University | B.S. in Statistics and Machine Learning   Pittsburgh, PA
Minor in Computer Science   Dec '19

EXPERIENCE – INDUSTRY

HubSpot | Software Engineer – Infra Costs   Cambridge, MA
Java, MySQL   Spring '20 – current
· Building tools to understand and better control HubSpot's overall AWS and GCP infrastructure spend.

Intuit | Software Engineer Intern – Data Platforms   Mountain View, CA
Java, React, Redux, JavaScript, MySQL   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 pain points regarding big data analysis.

Amazon | Software Development Engineer Intern – AI Labs   Seattle, WA
C++, Java, Python   Summer '18
· 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
C#, 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 for deep neural networks across hybrid environments.   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, 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