

Jason Hong

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Education

Boston University

Expected Graduation: May, 2021

Bachelor of Arts in Computer Science *Minor in English*

GPA: 3.5

Relevant Coursework: Computer Systems, Algorithm Analysis, Distributed Systems, Linear Algebra, Discrete Mathematics, Functional Programming

Programming Languages: C, Golang, Python, Java, Haskell

Projects

Snaptracks - Image-based music recommendations - *Developer*

Summer 2020

- Used the Google Vision API in conjunction with the Spotify API to dynamically generate a list of music recommendations based off of an input photo.
- Recognizes objects, mood, color palette, and locations within the photo
- Implemented Features: OAuth 2.0 user accounts, SQLite database for cached user data

CoVeritas - COVID-19 News Summarizer - *Developer*

Summer 2020

- Used the News API to aggregate high-quality, filter-specific COVID-19 articles, and summarized using SMMRY's strong keyword-based algorithm for more relevant and faster news via web-app
- Implemented Features: keyword-specific article curation, and SMS push-notifications
- Submitted as a team entry for the MIT Beat the Pandemic II hackathon.

Mini-Haskell - A Haskell-like functional programming language - *Developer*

Spring 2019

- A "Mini-Haskell" functional programming language that provides a set of core primitives for programmers to write in down-scaled, miniature Haskell style.
- Implemented Features: Most atomic values, low-level type expressions, binary operators, and other functional operators. Parser and ParserMonad methods to handle monadic parsing logic.

Experience

Boston University Brain Imaging Lab

Spring, 2020 - Present

Research Assistant - Gulf War Illness Study

- Researched and consolidated MRI/CAT scans of subjects with Gulf War Illness, across factors such as age, gender, exposure to sarin, and symptoms using the FreeSurfer processing suite.
- With these normalized data points, will work to develop a model in which these images can be used together to form a diagnostic system for early detection of Gulf War Illness. Currently researching the role of machine learning in glial cell imaging in PET scans to determine early detection methodologies.
- Skills: Data management and processing, scripting, scikit-learn

Phi Alpha Delta: Professional Law Fraternity

Spring 2018 - Spring, 2020

Chief of Logistics

- Identified and implemented essential IT best-practices for the organization, including website and password management, and group communications.
- Projects: Automated text messaging service, Creation and administration of branch website

Additional Skills and Interests

- Arch Linux & Fedora enthusiast
- Languages: Native {English}, Proficient: {Spanish, Korean}
- Interests: Twitch streaming (twitch.tv/jasonhongxyz)