JEFFREY HUO

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EDUCATION

University of California, Berkeley   August 2017 - December 2020

Electrical Engineering and Computer Science, B.S.

Relevant Coursework:

• Efficient Algorithms and Intractable Problems • Operating Systems and System Programming • Intro to Database Systems • Intro to the Internet: Architecture and Protocols • Computer Security • Intro to Artificial Intelligence • Image Manipulation, Vision, and Computational Photography • Software Engineering (Concurrent)

Technical Languages and Software: Python, Java, C, Go, AWS, SQL, NoSQL, Git

WORK EXPERIENCE

Amazon Web Services - Python   May 2020 - August 2020

Software Development Engineer Intern   *Seattle*

· Designed and implemented a chat bot service using Amazon Lex to provide appropriate answers to customer FAQ through user intent and keyword matching, utilizing Lambda code hooks to serve data and perform queries

· Integrated DynamoDB streams with ElasticSearch to replicate Dynamo data and perform flexible data querying

· Created chat bot decision tree logic to visualize conversation flows to better understand customer satisfaction with keywords/answers and modify them as needed

PlayStation - Python, JavaScript   May 2019 - August 2019

Software Developer in Test Intern   *San Francisco*

· Developed and integrated helper library to existing automated testing framework on console that utilizes REST API calls to manipulate and validate network requests and responses

· Increased testing coverage on console and web testing frameworks, utilizing Selenium Webdriver and Grunt tools

· Fixed regression defects and created automated end-to-end tests to catch UI failures for TV streaming platform

PROJECTS

Seam Carver - Python   May 2020

· Created a seam carving program to perform content-aware image shrinking while maintaining image composition

· Utilized dynamic programming to find lowest importance seams of pixels in a given image using an energy function, repeatedly removing them until reaching the desired image size

· Decreased runtime of the algorithm by utilizing a min heap to utilize pre-computed seams, creating seam carved images in seconds

StockX Shoe Price Predictor - Python   December 2018

· Built a stock predictor for sneakers on StockX to determine the best time to purchase given past prices

· Used pandas to generate price prediction through data scraped from the StockX website using Beautiful Soup

· Utilized the Long Short Term Memory model using the Keras library to predict future stock behavior

Bear Maps - Java   May 2018

· Performed image rasterization to render a full map of UC Berkeley by searching and stitching image files

· Implemented shortest-path search using the A* algorithm along with dynamic zooming and scrolling

· Rendered map images to display routing and respond to scrolling and zooming, similarly to Google Maps

INTERESTS

• Photography • Video Games • Technology • Sneakers • Basketball • Cooking • Coffee • EDM and Hip-Hop