ALEXANDER T. KIM

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Education

Rice University Houston, TX

B.S. Computer Science w/ spec. in Machine Learning & B.A. Statistics May 2019

- Overall GPA: 3.87 | President's Honor Roll

Technical Skills

- **Languages**: Java, JavaScript, Python, C, HTML/CSS, Swift, Scala
- **Technologies**: Node, Express, MongoDB, React, Redux, React Native, Firebase, Heroku

Experiences

ClearBrain, *Software Engineering Intern* • San Mateo, CA July 2017 – Aug 2017

- Delivered a production-grade marketing website utilizing React.js to support millions of concurrent users
- Engineered a performant JavaScript table to search, sort, and filter >1 million rows of live customer data
- Restructured prediction results to aggregate user data from Firebase to identify specific user segmentation

eBay, *Software Engineering Extern* • San Jose, CA March 2017

- Prototyped a HR iOS application on XCode to lower company costs for 10,000+ employees
- Gathered training data for an HR bot utilizing the Microsoft Bot API to increase response consistency
- Analyzed HR bot search results of particular keywords to optimize and refine incorrect outcomes

Projects

Munchr, *Full-Stack Developer* July 2017

- Developed a mobile app in React.js to predict user meal preferences based on 15 food image swipes
- Utilized Microsoft Vision and Yelp API for categorical tagging of food and relevant restaurant lookup
- Constructed RESTful API endpoints on Heroku to classify meal types and compute individual user tastes

Securities Trading Bot, *Back-End Developer* July 2017

- Designed financial algorithms in Node.js to rapidly trade securities on a virtual marketplace
- Established socket connections to handle high-volume, time-sensitive communications between servers
- Grossed approx. $1 million in profit in 6 hours leveraging methods such as penny pitching and arbitrage

Image Breeder, *Full-Stack Developer* Dec 2016

- Created a Java app that combines images and produces offspring images with features resembling parents
- Incorporated Spark to handle concurrent image generation and optimize complex image load speeds
- Saved image data using a system of formal grammar to ensure accurate re-parsing of information

Part-of-Speech Tagger, *Back-End Developer* May 2016

- Determined the probability of specific part-of-speech sequences using a bi/tri-state Hidden Markov Model
- Implemented the Viterbi Algorithm in Python to identify the most probable order of hidden states
- Tested part-of-speech tagging on Wikipedia text with a 95%+ accuracy rate

Leadership

Super Committee Director April 2017 - Present

- Initiated a leadership plan to ensure the accountability for all committee socials and events

Technology Committee Head April 2016 - Present

- Provided necessary IT aid for 20+ events ranging from audio assistance to web development needs

Student Government Representative Aug 2015 - April 2017

- Established 50+ student policies with a multi year-long vision for greater community inclusion