Spencer Chang

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EDUCATION

Rice University, Houston, TX — August 2015 – May 2019
Master's of **Computer Science**; Bachelor of Arts, **Computer Science**; Minor, **Business** — GPA: 3.87
Relevant Coursework: Deep Learning, Data Science, Web Dev, Artificial Intelligence, Parallel Computing, Statistical Machine Learning, Database System Implementation, Operating Systems

SKILLS

Languages: Python, Java, C, JavaScript, C++, Ruby, HTML, SQL
Software & Frameworks: Git, Rails, Jupyter, React, Node, MongoDB, Angular, Express, Flask, TensorFlow, Keras

EXPERIENCE

Airbnb | *Software Engineering Intern* | San Francisco, CA — Starting May – August 2018

Kleiner Perkins Caufield & Byers | *KPCB Engineering Fellow* | San Francisco, CA — May – August 2018

Square (Capital) | *Software Engineering Intern* | San Francisco, CA — May – August 2017

- Created and designed full stack application using EmberJS and Ruby on Rails to provide a general solution for partners to upload their customer data and offer their merchants loans without any engineering work
- Designed RESTful endpoints and used protobufs to ingest the data and implemented scheduled jobs with Sidekiq
- Upgraded Sidekiq to the latest version (5x throughput) for the Capital-wide repo and deployed to production

PROS | *Software Development Intern* | Houston, TX — June – August 2016

- Created new dialog to select multiple filters for filtering sales data, a highly requested feature by customers, and was showcased in the quarterly State of the Union address to the company
- Implemented Neighbor Watch, a machine learning algorithm used for precise pricing segmentation, in Scala and Spark and used Azure HDInsight to parallelize processes on the cloud

PROJECTS

Chorus | *HackMIT (Top 10 overall)* — September 2017

- Collaborative way for strangers to create music together and share perspectives and styles
- Worked on backend database, the music-playing functionality, and the map to track contributions
- Full stack application using Flask, MongoDB, and d3.js

Crisis Management Team | *Rice University* — August 2017

- Analyzed data on the Rice community's needs immediately post Hurricane Harvey and identified actions for the Provost and the administration to alleviate pressure on staff, faculty, and students, using Python and pandas

Q&A Slack Bot | *Square Intern Hackathon* — July 2017

- Created a Slack bot using Python to train on messages in a channel and learn answers to FAQs through identifying questions, grouping them with word2vec, and finding repeated sequential answers to save employee hours

LEADERSHIP + ACTIVITIES

Rice CS Club (Rice ACM) | *President (2017-Present), External Vice President (2016-2017)* — March 2016 – Present

- Lead vision for creating a closer CS community and launch new initiatives, including new technology and career workshops and mentorship events for underclassmen, increasing attendance of events by 30% on average
- Managed communications with outside organizations and coordinated events for them to connect students with technology opportunities (including leading sponsorship advertisement for HackRice raising over $50,000)

Algorithmic Thinking (COMP 182) | *Teaching Assistant* — January 2017 – Present

- Taught students material for the core algorithms class of over 200 students during labs and office hours

Rice Entrepreneurship Club | *Executive Board Member* — December 2015 – May 2017