

# Spencer Chang

🏠 [spencerchang.me](http://spencerchang.me) ☎ 832-452-4392 ✉ [Spencer.Chang@rice.edu](mailto:Spencer.Chang@rice.edu)

🌐 [github.com/spencerc99](https://github.com/spencerc99) 🔗 [linkedin.com/in/spencerchang1](https://www.linkedin.com/in/spencerchang1) 📝 [medium.com/@spencerc99](https://medium.com/@spencerc99)

---

## EDUCATION

**Rice University**, Houston, TX

May 2019

Bachelor of Science, **Computer Science**; Minor, **Business**

GPA: 3.87

**Relevant Coursework:** Deep Learning, Data Science, Web Dev, Artificial Intelligence, Parallel Computing

## SKILLS

**Languages:** Python, Java, JavaScript, Ruby, HTML, SQL, C

**Software & Frameworks:** Git, Rails, Jupyter, Flask, MongoDB, Angular, Express; Novice: React

## EXPERIENCE

**Airbnb** | *Software Engineering Intern & KPCB Fellow* | San Francisco, CA

Starting 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
- Designed learning algorithm for the bot to adapt to changing "correct" answers and live demoed to company

## 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

- Collaborate with Rice's Entrepreneurship Initiative to plan events to promote entrepreneurship and startups