

Jonathan Cai

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Education

Aug 2017 – Aug 2021 **Rice University**, Houston, TX
Bachelor of Science in Computer Science, GPA: 3.88/4.00, Major: 3.90/4.00
President's Honor Roll: Fall 2018, Fall 2019, Spring 2020

Industry Experience

May 2020 – Aug 2020 **Facebook**, *Software Engineering Intern*, Menlo Park, CA.
Improved network config generation service which handles ~40k requests a day (Python).
Achieved 10% decrease in service response time by building an in-memory cache.
Prevented several site events by extending regression and A/B testing framework.

Jun 2019 – Aug 2019 **JPMorgan Chase**, *Software Engineering Intern*, Houston, TX.
Developed full-stack web app for bankers to visualize loan/bond data (Java, React).
Built data pipeline for asynchronous data retrieval at scale, ~12k datapoints hourly.

Jun 2018 – Aug 2018 **Sihua Technologies**, *Software Engineering Intern*, Cupertino, CA.
Achieved 70% decrease in deployment time by reengineering CI/CD pipeline (Go).
Built primary notification system for end clients through Gmail and Slack.

Other Experience

Feb 2020 – Current **RiceApps**, *Co-President*, Houston, TX.
Leading app development club of 40 students building for thousands of users.

Aug 2018 – Feb 2020 **RiceApps**, *Team Lead*, Houston, TX.
Led team of 7 students to build custom blog and website for a local non-profit (React).
Built mobile food delivery system (React Native, Apollo GraphQL, MongoDB).

Aug 2019 – May 2020 **Rice University**, *Head Undergraduate Teaching Assistant*, Houston, TX.
COMP 322 Principles of Parallel Programming (Java).
COMP 330 Data Science Tools & Models (SQL, AWS, Spark, MapReduce, Tensorflow).

Sep 2019 – Dec 2019 **Rice University**, *Undergraduate Researcher*, Houston, TX.
Built visualizations for neural networks as composed by max affine spline operators (JavaScript).

Projects

Jun 2020 – Current **My Desk Tour**, *mydesktour.com*.
Platform for sharing desk setups (React, Apollo GraphQL, MongoDB, GCP).
~10k visits after beta launch, ~50 registered users, ~15 pieces of user generated content.

May 2020 – May 2020 **What Time Today?**, *whattime.today*.
Tool that helps you quickly summarize your calendar availability (React, Google APIs).
~8k visits after launch, ~75 Google Calendar users, ~100 users per month.

Sep 2019 – Sep 2019 **DynaML**, *4th place at HackRice 9, 1st place Facebook Algorithmic Complexity*.
Machine learning research toolkit for graph neural networks (PyTorch, Flask, JavaScript).

Jun 2019 – Aug 2019 **News Sentiment**, *github*.
Experimented 6 sentiment analysis methods on news, measuring stock price correlation.
Involved use of Python, New York Times API, NLTK Library, Tensorflow.

May 2019 – May 2019 **Rackr**, *1st place at Capital One Hackathon*.
Receipt scanning iOS app with personal finance metrics (Swift, Flask, Python).

May 2018 – May 2018 **News Visualization**, *3rd place at AT&T Hackathon*.
Graph relationships between political figures through news articles (Python, JavaScript).

All other projects at jonathancai.com/projects