

Jonathan Cai

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EDUCATION

- **Rice University**

Houston, TX

Bachelor of Science in Computer Science; GPA: 3.83/4.00

Aug. 2017 – May. 2021

President's Honor Roll: Fall 2018, Spring 2019

Relevant Coursework: Tools & Models for Data Science, Statistics for Data Science, Linear Algebra, Algorithmic Thinking, Intro to Program Design, Principles of Parallel Programming, Fundamentals of Computer Engineering

SKILLS

- **Technologies:** Python (PANDAS, NumPy, SciKit-Learn, Jupyter Notebook), Java, Go, JavaScript (React), C
- **Tools:** Git, SVN, AWS, Tesseract OCR, Docker, Vim, L^AT_EX
- **Languages:** English (native), Mandarin (social)

EXPERIENCE

- **Rice University**

Houston, TX

Undergraduate Teaching Assistant

Aug 2019 - Dec 2019

- **COMP 330 - Tools & Models for Data Science:** Hold weekly office hours, grading for 80+ students.
- Help students implement standard supervised/unsupervised models, use SQL, MapReduce, Spark, Tensorflow.

- **JP Morgan Chase & Co.**

Houston, TX

Software Engineering Intern

June 2019 - Aug 2019

- **Leveraged Loan Financing:** Joining team developing a web app to help bankers manage leveraged loans.
- Tech stack includes Spring Boot web framework, Hibernate ORM, and Maven build for Java, and React frontend.

- **RiceApps**

Houston, TX

Software Team Lead

Aug 2018 - Current

- **Hedwig:** Lead Agile team of 7 to build full-stack iOS app for campus-wide food delivery at Rice University.
- Utilized React Native, GraphQL, MongoDB, and Stripe API; projected to launch onto App Store Fall 2019.

- **Sihua Technologies**

Cupertino, CA

Software Engineering Intern

June 2018 - Aug 2018

- **GitOps:** Reduced average re-deployment time by 70% by redesigning CI/CD pipeline.
- Automated the deployment of product features on local Docker Swarm and Kubernetes clusters triggered by internal Gitlab file changes, utilizing Gitlab and Slack API with Golang concurrency constructs.
- **Notifications:** Implemented notification system for the existing monitoring feature to notify end clients through WeChat, Gmail, DingTalk, and Slack webhooks (Go).

- **CoderDojo**

Saratoga, CA

Student Mentor

June 2018 - July 2018

- Volunteered on weekends to help 20+ young programmers (elementary/middle-school age) with personal projects or learning basic programming skills (Python, Java, HTML).

PROJECTS

- **LA Bike-Share Analysis:** Visualized and analyzed LA bike-share data; selected as winning project among hundreds for participation in the 2019 Capital One Software Engineering Summit (Python, React).
- **SER Jobs (JP Morgan Chase, Code for Good Challenge 2018):** Redesigned job-seeking application form for a local Houston NGO, SER Jobs to optimize client retention (Python, JavaScript, MySQL).
- **News Visualization (3rd Place in AT&T Entertainment Hackathon):** Illustrated a network of political figures related through news articles (Python, JavaScript, NLTK).
- **Hangman, Length Converter:** Released Two Google Chrome extensions with over 100 users (JavaScript).

LEADERSHIP/EXTRACURRICULARS

- **Jones College Government:** Orientation Week Advisor, Peer Academic Advisor, Special Services Coordinator, IM Sports Coordinator, Powderpuff Coach
- **Rice University:** RiceApps, Rice Club Basketball Team, Rice Computer Science Club, Rice Legalese Club