Jonathan Cai

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EDUCATION

- **Rice University** — Houston, TX
  Bachelor of Science in Computer Science; GPA: 3.85/4.00 — Aug 2017 – May 2021
  President's Honor Roll: Fall 2018, Fall 2019
  Relevant Coursework: Intro to Deep Learning, Tools & Models for Data Science, Statistics for Data Science, Probabilistic Algorithms, Advanced OOP & Design, Linear Algebra, Operating Systems, Parallel Programming

SKILLS

- **Technologies**: Python (pandas, NumPy, Scikit-learn, Jupyter Notebook), Java, Go, C, Javascript, React, React Native

- **Tools**: Git, Heroku, Node, AWS, GCP, Spark, Docker, Flask, Tensorflow, SQL, LaTeX **Languages**: English, Mandarin

WORK EXPERIENCE

- **Facebook** | *Software Engineering Intern* — May 2020 - Current

- **JP Morgan Chase & Co.** | *Software Engineering Intern* — June 2019 - Aug 2019
  - Asynchronous data ingestion/enhancement/visualization of loans/bonds at scale (12,000+ hourly, 40+ properties).
  - Leveraged experience with container technologies to establish DevOps pipeline using Jenkins.

- **Sihua Technologies** | *Software Engineering Intern* — June 2018 - Aug 2018
  - **GitOps**: Achieved 70% decrease in average platform deployment time by re-engineering CI/CD pipeline.
  - Engineered primary notification system for end clients through Gmail, Dingtalk, WeChat, and Slack.

EXTRACURRICULARS

- **RiceApps** | *Software Team Lead* — Aug 2018 - Current
  - **Friends of Texas Wildlife**: Lead 5 developers, a designer, a product manager to build a website for a non-profit.
  - **Hedwig**: Worked with team of 7 to build full-stack iOS app for campus-wide food delivery at Rice University.

- **Rice University** | *Head Undergraduate Teaching Assistant* — Aug 2019 - May 2020
  - **Fundamentals of Parallel Programming**: Lead team of 15 TA's to support class of 150 students.
  - **Tools & Models for Data Science**: Reinforce lectures with weekly office hours to support class of 100+ students.
  - Help students implement standard supervised/unsupervised models; use SQL, Apache Hadoop, Spark, Tensorflow.

- **CoderDojo** | *Student Mentor* — June 2018 - Aug 2018
  - Volunteered as mentor at local library on Sundays to help 20+ middle school kids develop programming skills.

PROJECTS

- **DynaML**:
  ML research toolkit to simulate dynamic systems and apply graph neural networks. (4th Place at HackRice 9, Facebook Algorithmic Complexity Challenge)

- **News Sentiment**:
  Researched 6 different sentiment analysis methods on the news, measuring stock price correlation.

- **Rackr**:
  Receipt scanning/tracking iOS app with personal finance metrics. (1st Place at Capital One Hackathon)

- **News Visualization**:
  Illustrated a network of political figures related through news articles. (3rd Place at AT&T Entertainment Hackathon)

- **Bike-Share Data Analysis**:
  Analysis and visualization of LA bike-share data. (One of 26 winning projects of 250+ for 2019 Capital One SES).