Jason Chen

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Education

Stanford University — Stanford, CA
Bachelor of Science in Computer Science — *Aug. 2013 – May 2017*
Master of Science in Computer Science — *May 2017 – April 2019*

Experience

Full-Stack Web Developer — January 2021 – July 2021
www.rabbitholes.ooo — *San Francisco, CA*

- Publicly deployed web app done as a personal project. Details in project description and Github repo linked below

SDE 2 — June 2018 – October 2020
eero | Amazon subsidiary — *San Francisco, CA*

- Developed microservices using Scala, Play, and Akka to support our mesh WiFi router fleet and user applications
- Worked on Amazon acquisition and integration projects like account linking or Works with Alexa certification
- Built new processes to support QA compliance and localization testing as we brought our products international
- Created a pipeline to deliver release notes changes to mobile apps within seconds
- Investigated and prototyped a Kubernetes-hosted Prometheus metrics service to replace InfluxDB
- Served as a point person on our cloud team to mentor interns and onboard new engineers
- Wrote onboarding docs and was a constant proponent of improving documentation and engineering processes

CS106 Section Leader / Head TA — November 2015 – June 2018
Stanford CS Department — *Stanford, CA*

- Created new section material for an intro CS series migrating from Java to Python/Javascript for the first time
- Managed office hours, discussion sections, course staff and grading
- Taught a weekly section of 8-12 students for 7 academic quarters before transitioning to head TA

Software Engineering Intern — June 2016 – September 2016
Roboterra — *Sunnyvale, CA*

- Released the beta of a robotics education app written with JavaScript and ReactJS in a team of 4
- Coded the quiz and code challenge system, coding feedback generator, and JSON processing tools

Projects

www.rabbitholes.ooo | *JavaScript, Express, React, mongoDB, Figma, AWS, Firebase, Docker, nginx*

- Allows users to create and view ordered lists of links, like playlists for Internet content instead of songs
- Worked on everything from coding to design to product management to improve my practical skills over 6 months
- Project documentation and code available under Github repo and README: https://github.com/cheson/rabbitholes

US Governor Speech Analysis | *Python, Selenium, Plotly*

- Scraped US governors' speeches from votesmart.com using the Python tool Selenium
- Built a tool to analyze and visualize governors' focus on various keywords and topics over time

Race in the NYT | *Python, NLTK, Gensim*

- Investigated how the New York Times' portrayal of various races changed between 1987-2006
- Created a vector space model for semantic orientation sentiment analysis

cardinalTCP | *C++*

- Implmented stop-and-wait and sliding window transport protocols over IP that interoperated with TCP
- Managed all the states needed to buffer and output packets, and setup and teardown connections

Technical Skills

Languages: Scala, Python, C, C++, Javascript, SQL, HTML/CSS
Frameworks and Tools: AWS, Akka, Alexa Skills SDK, Cloudflare DNS, Docker, Express, GitLab CI/CD, Grafana, Google Firebase, k8s, mongoDB, Node.js, Play Framework, Prometheus, protobuf, React, Redux, Terraform