Jonathan E. Chao

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Education

Rutgers University School of Arts and Sciences – Computer Science   *September 2016 – May 2019*
Coursework
- Intro to Computer Science, Data Structures, Computer Architecture, Intro to Discrete Structures I, Intro to Discrete Structures II, Systems Programming, Principles of Programming Languages, Design and Analysis of Computer Algorithms, Intro to Artificial Intelligence

Rutgers University Mason Gross School of the Arts – Music Education   *September 2015-May 2016*

Experience

Software Development Engineer   *Sept 2019 – Dec 2020*
Amazon, Sales Demand Forecasting   New York, NY
- Maintained a demand forecasting model that forecasted for millions of products for different countries, such as Singapore, the Netherlands, Sweden, India, Poland
- Developed internal applications to generate demand forecasts by processing large internal databases using Scala, Spark, Hadoop, and Native AWS technologies (S3, EMR, Glue, Lambda, Step Functions)
- Designed and implemented internal system improvements, such as a new feature of expanding the coverage of the demand forecasts by processing inventory data

Software Development Engineer Intern   *May 2018 – August 2018*
Amazon, AWS S3   Seattle, WA
- Designed and implemented a service to decrease latency for internal S3 services using Java and Junit
- Directly integrated this feature in the S3 request path, a service that currently stores trillions of objects and regularly services up to millions of requests per second.
- Utilized multi-threaded programming to reduce latency on reading large amounts of data at a time
- The final project was presented to my manager, senior manager, and director

Summer School Teacher   *July 2017 – August 2017*
One Academy   Norwood, NJ
- Taught elementary level math, reading and writing to small class of students

Asian Young Life Student Staff   *January 2016 – February 2017*
Non-profit Organization
- Assisted in organizing community service events, social events and weekend/weeklong trips

Personal Projects

Personal Site   *January 2017 –Present*
- Used HTML, CSS, and Javascript to build a site containing further resume details

Rehearse with Friends   *January 2017*
- Web-application to encourage group rehearsals made using Python, Flask, MongoDB, Heroku
- Allows user to input name and specified times of rehearsals that will be publicly shown to others

Stop the Squares   *October 2017*
- Used HTML and jQuery to create a game where user has to click squares before they fall to the bottom

Skills

- Languages: Java, Scala, C, HTML/CSS, Python, Javascript
- Technologies: Spark, Hadoop, AWS, JQuery, Flask, MongoDB, Jinja, Git, React