

Alex J Wang

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EDUCATION

DUKE UNIVERSITY BS IN COMPUTER SCIENCE AND ECONOMICS

Class of 2023 | Durham, NC
Trinity College of Arts and Sciences
Cum. GPA: 3.86 / 4.0
Major GPA: 4.0 / 4.0

OBRA D. TOMPKINS HS

Grad. May 2019 | Katy, TX
Cum. GPA: 4.84
Rank: 3 / 800

SKILLS

TECHNICAL SKILLS

Proficient with:

Java • Python3 • Javascript (ES6)
Flask • React • Node.js • Express
MongoDB • HTML5 • CSS3
MaterialUI • Bootstrap • Git
C • Assembly • Agile (Scrum)
Shell • Jenkins CI/CD • OpenShift
Docker • npm • Heroku

SOFT SKILLS

Outstanding:

Verbal communicator and writer
Leader • Motivator • Team Player

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Computer Architecture
Multivariable Calculus
Linear Algebra
Probability
Macroeconomics
Microeconomics

PROJECTED

Discrete Mathematics
Machine Learning and Artificial
Intelligence

VOLUNTEER WORK

KATYISD TENNIS CAMP

Summer 2018 2019 | Katy, TX
• Volunteered as a tennis coach at
KatyISD Tennis Camp.
• Worked with children ages 6-14.
• Coordinated warm-up activities.

EXPERIENCE

UNITEDHEALTH GROUP (OPTUM) | SOFTWARE ENGINEERING INTERN

June 2020 – August 2020 | Raleigh, NC

- Developed a full stack web application with React/Flask/MongoDB that fosters collaboration between developers on inner source libraries.
- Created RESTful API microservice using Flask to access NoSQL database.
- Taught myself how to deploy applications on OpenShift with CI/CD Jenkins pipeline and Docker.
- Presented and demonstrated final application and project business model canvas to senior leaders with an estimated company savings of \$3 million.
- Communicated with team members and organization leaders to leverage business resources in order to finalize production-ready solution.

QUESTED | IOS DEVELOPER

September 2019 - January 2020 | Durham, NC

- Worked with team to develop an iOS application that teaches young children about leukemia.
- Collaborated with development team and product managers to scale the application's MVC architecture and wrote unit tests.

TECHNICAL PROJECTS

REACT PATHFINDING VISUALIZER | WEBSITE, GITHUB

Spring 2020 | Houston, TX

- Developed a Reactjs application that visualizes famous pathfinding and maze-generation algorithms.
- Implemented Dijkstra's algorithm, bidirectional search, depth first search, breath first search, and recursive maze division.

POOL PARTY | WEBSITE, GITHUB

Fall 2019 | Chapel Hill, NC

- Developed a full stack web application that connects students in the Research Triangle Area (NC) who want to carpool to RDU International Airport.
- Utilized ReactJS, Node.js, Express, MongoDB, and Bootstrap.
- Built at HackNC Hackathon and collaborated with two teammates using Git.

YANGTRACK | WEBSITE, GITHUB

Fall 2019 | Durham, NC

- Developed a web application that fetches tweets regarding Andrew Yang from the official Twitter API and performs sentiment analysis on the data.
- Utilized chart.js npm package to visualize sentiment analysis data.
- Built in ReactJS, Node.js, and Express.

AWARDS

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|------|----------|------------------------------------------------------------------------------------------|
| 2019 | National | USACO Gold Division |
| 2019 | National | National Merit Finalist |
| 2019 | National | National AP Scholar |
| 2018 | National | 1st place in Financial Math Future Business Leaders of America |
| 2018 | State | 1st place in Remote Sensing (Spatial Mapping) Texas Science Olympiad State Tournament |