

JOSHUA GUO

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EDUCATION

Stony Brook University Honors College

3.97 GPA

B.S. in Computer Science & Applied Mathematics and Statistics

Graduating Spring 2022

- Computer Science Honors Program
- Teaching Assistant for Multivariable Calculus & Software Development Fundamentals

WORK EXPERIENCE

Facebook

Summer 2021

Incoming Software Engineer Intern

Fidelity Investments

June 2020 - Aug 2020

Software Engineer Intern

- Developed, tested, and implemented a Bash script to automate the process of building out new middleware servers, reducing setup time from hours to 10 minutes.
- Designed Java Spring classes using multi-threading to collect and display data from 100s of messages a minute.
- Explored different log management tools, installing them on Linux servers and experimenting with efficiently parsing log data using regex.

kidOYO

Sept 2018 - May 2020

Mentor

- Provided guidance to students K-12 online across 30+ school districts on Long Island.
- Graded 300 assignments in Scratch, Python, Java, JavaScript, and HTML/CSS weekly.

PROJECTS

ControlLED

- Developed an Arduino program and MERN web app to control a set of addressable LEDs.
- Created a REST API using Express to manage a queue of LED state requests within MongoDB.
- Designed a modular front-end interface with React to enable users to set custom LED colors and modes.
- Customized CSS to give the interface an intuitive and modern feel on both desktop and mobile.

PlanIt

- Developed a web app that allows users to create customized to-do lists.
- Created an dynamic interface with JavaScript functions and event listeners to modify the DOM.
- Implemented Google Firestore API to read, write, and manage data within the cloud to support multiple users.
- Began refactoring codebase to use React to increase modularity.

Revibe

- Designed a web app in a 24-hour hackathon that sends users humorous messages depending on their mood.
- Collaborated in a team of four to learn React, Node.js, and Bootstrap from scratch and study documentation.
- Utilized React Class and Function components to create a fluid user interface with a message feed.
- Implemented JavaScript functions to feed webcam footage to Azure Face API to track facial expressions and send users custom messages based on API response.

RELEVANT COURSEWORK

Object-Oriented Programming, Data Structures and Algorithms, Software Development Fundamentals, Computer Networking, Systems Fundamentals, Artificial Intelligence, Analysis of Algorithms

TECHNICAL SKILLS

Proficient Languages: Java, JavaScript, HTML/CSS

Familiar Languages: Python, C#, C, Bash

Tools/Frameworks: Git, Node, React, Spring