

JOSHUA GUO

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EDUCATION

Stony Brook University Honors College

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

3.97 GPA

Graduating Spring 2022

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

RELEVANT COURSEWORK

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

WORK EXPERIENCE

Facebook

Incoming Software Engineer Intern

Summer 2021

Menlo Park, CA

Fidelity Investments

Software Engineer Intern

June 2020 - Aug 2020

Merrimack, NH

- 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

Mentor

Sept 2018 - May 2020

Stony Brook, NY

- 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 a 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.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C, C#, HTML/CSS, Bash
Tools/Frameworks: Git, Node, React, Spring