ZAIN KHAN

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EDUCATION

University of California, San Diego *Sep 2019 - June 2023*

Sophomore, Bachelors of Science in Computer Science and Mathematics

RELEVANT COURSEWORK

CSE 12: Data Structures & Object-Oriented Design	CSE 20: Discrete Mathematics
CSE 15L: Software Tools & Techniques Lab	CSE 100: Advanced Data Structures
CSE 30: Computer Organization Systems	CSE 105: Theory of Computation
CSE 21: Mathematics for Algorithms & Systems	MATH 109: Mathematical Reasoning

EXPERIENCE

Triton Software Engineering *Oct 2020 - Present*

Software Developer

- Triton Software Engineering is a group of **60+ students**, designing and developing software pro-bono for social good
- As a Software Developer, I work with a team of **8 other developers and designers** on a project to make a Supply Chain tool for a San Diego food bank to become more cost efficient

Juni Learning *Feb 2020 - Present*

Computer Science Instructor

- Tutor high school students Computer Science concepts in Java, and Python
- Teach a wide range of core topics including recursion, algorithms, OOP, and graphics

PROJECTS

Supply Chain Simulator *Oct 2020 - Present*

- Currently working on a team of 8 to create a Supply Chain tool to help a San Diego food bank make more cost efficient purchases on food and produce
- The goal is to forecast food availability and need for the food bank to easily estimate how much food there is, how long it will last, and how much more to purchase
- The project is using **React, JavaScript, MongoDB**, and a number of other back end tools

Domain Name System (DNS) Block List Database *Oct 2020 - Nov 2020*

- Implemented a hash table-based database that would contains DNS names of websites to block
- Users could load in a list of DNS names they'd like to block to the database, and make queries for different DNS names they encounter
- The program would inform the user whether their DNS name is in the blocked database, and allow the user to add a new DNS name to the block database

Sorting Algorithm Visualizer *June 2020 - Aug 2020*

- Created a web application using React, Node.js, and JavaScript to visualize sorting algorithms
- Able to visualize Merge Sort, Insertion Sort, Bubble Sort, and Selection Sort
- **Project URL: zainnk902.github.io/SortingVisualizer/**

LANGUAGES AND TOOLS

Languages	**Tools**
Java, Python, JavaScript, CSS, HTML	Bash Scripting, Vim, Unix, React, Git, GitHub, GDB