SIDDHARTH PARATKAR

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EDUCATION

Carnegie Mellon University
B.S., Information Systems
Addn. Major, Computer Science
Minor, Computational Finance
(May 2023)

QPA: 3.38

Relevant Coursework:
- Distributed Systems
- Application Design and Development
- Parallel and Sequential Data Structures and Algorithms

SKILLS

Programming Languages:
Java · Python · TypeScript · C · SQL

Technologies/Frameworks:
Linux · Git · MongoDB · Spring · React/Redux · JIRA

Technical Skills:
Data Structures · Algorithm Design and Analysis · Functional Programming · Computer Systems

Languages:
English · Spanish · Hindi · Marathi

LEADERSHIP

Economic Research Club
Treasurer (2019 - Present)

ScottyLabs
Software Engineer (2020 - Present)

EXPERIENCE

Software Development Intern · Amazon AWS   May 2022 - Aug 2022
- Fixed reconnecting bugs and addressing corrupted text when sending a message to minimize manual user reloading and enhance the **MQTT Test Client**
- Implemented a payload using **React** and **TypeScript** that maintains state for each topic to allow users to save messages across topics
- Updated existing **Redux** interfaces to store data and dispatched payload data to store constant updates with low performance impact
- Deployed tested and styled feature to the beta-testing channel with assistance from the UX team

Head Teaching Assistant: Introduction to Computer Systems · CMU   Dec 2021 - Aug 2022
- Employed within the **School of Computer Science**; expanded existing course resources and led weekly labs and office hours
- As Head TA, worked with the professors to maintain the infrastructure of the course
- Was also TA for **Concepts of Mathematics** from Aug 2021 to Dec 2021, and for **Principles of Functional Programming** from Dec 2020 - Aug 2021

Software Engineering Intern · JPMorgan Chase   Jun 2021 - Aug 2021
- Implemented a static top bar for all widgets of a client-facing dashboard in **Angular**, **TypeScript** and **Boostrap** that supports expand, minimization and delete functionalities
- Created a MyTasks widget that filtered tasks from a **MySQL** database into buckets using a **REST API** developed with **Java Spring Boot** and dynamically updated task counts per bucket
- Deployed with **Jenkins** wrapper; voted Top 2 project out of 31 by JPMC executive directors

Research Assistant · Human-Computer Interaction Institute   Sept 2020 - Dec 2020
- Designed in-depth dashboard that showed students' performance on problem sets to teachers by utilizing **Vue, HTML, CSS and Lumilo detectors**
- Designed widget that showed time spent, performance and progress on problem set
- Launched to Pittsburgh-area math teachers in 2021

PROJECTS

StudySmart · TartanHacks 2020   Feb 2020
- Used **HTML, CSS, and Microsoft Azure** to packet-sniff devices/people using **Kismet** and displayed historical data for various campus locations
- Top 6 project out of 51 at TartanHacks 2020, Best Beginner Hack award (BNY Mellon)

Ohio Humanities Website · Code for Good 2020   Oct 2020
- Employed **NodeJS** to display user reactions to content produced by Ohio Humanities
- Implemented pie charts of user data via **ChartsJS** for analysis by nonprofit
- Generated dummy data for testing on the backend using **SQLite**
- Top 2 Project in its division at CFG 2020

AWARDS/CERTIFICATIONS

- *Python and Algorithms Course Certification*, Completed StackSkills course on data structures and algorithms taught in Python
- *JavaScript Bootcamp Certification*, Completed StackSkills course on working with JavaScript and related frameworks (i.e. React, Vue)
- *Presidential Volunteering Service Award*, Did over 100 hours of volunteering service in 2018