

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:

- Database 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 2021

- Implemented a payload using **React**, **Redux** and **TypeScript** that maintains state for each topic in the MQTT test client
- Updated existing **Redux** interfaces to store data and dispatched payload data to store for constant updates with low performance impact
- Worked with UX to deploy a tested and styled version to beta-testing channel after completion of project

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 **Bootstrap** 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

- Utilized **Vue**, **HTML**, **CSS** and **Lumilo detectors** to design in-depth dashboard that showed students' performance on problem sets to teachers
- 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 messages related 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
- *HTML5/CSS3 Course Certification*, Completed StackSkills course on building websites with HTML/CSS
- *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