

SIDDHARTH PARATKAR

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EDUCATION

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

GPA: 3.53 (University Honors)

Relevant Coursework:

- Distributed Systems
- Application Design and Development
- Algorithm Design and Analysis
- Mobile App Development
- Machine Learning

SKILLS

Programming Languages:

Java · Python · TypeScript · C · SQL · SML · Swift

Technologies/Frameworks:

Linux · Git · MongoDB · Spring · React/Redux · JIRA · Ruby on Rails · Xcode

Technical Skills:

Data Structures · Algorithm Design and Analysis · Functional Programming · Computer Systems

Languages:

English · Marathi · Hindi · Spanish

LEADERSHIP

Economic Research Club
Treasurer (2019 - 2020)

EXPERIENCE

Software Development Intern · Amazon AWS

May 2022 - Aug 2022

- Fixed nearly 100% of reconnecting race conditions 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 **Jest**-tested and styled feature to the beta-testing channel with help from the UX team

Head Teaching Assistant: Introduction to Computer Systems · CMU

Dec 2021 - May 2023

- Employed within the **School of Computer Science**; expanded existing course resources and led weekly labs and office hours on topics related to system architecture, concurrency and memory management
- 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

- 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)

ConcertClips · 67-443 Class Project

Aug 2022 - Dec 2022

- Used **Swift** to develop an iOS app that mimics social media video-sharing for concert media
- Implemented Google Auth, filtering on metadata and swipable/clickable home screen
- Stored videos in **Firebase** for easy recall on user input

AWARDS/CERTIFICATIONS

- *Senior Leadership Recognition Award*, Given to Seniors who have demonstrated excellent in leadership during their time at CMU
- *Python and Algorithms Course Certification*, Completed StackSkills course on data structures and algorithms taught in Python
- *Presidential Volunteering Service Award*, Did over 100 hours of volunteering service in 2018