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 · React/Redux · JIRA · Ruby on Rails · Vue · PostgreSQL · NumPy · pandas

Technical Skills:
Data Structures · Algorithm Design and Analysis · Functional Programming · Computer Systems · CI/CD · Agile

Languages:
English · Marathi · Hindi · Spanish

LEADERSHIP

Economic Research Club
Treasurer (2019 - 2020)

EXPERIENCE

Forward Deployed Software Engineer · Palantir Technologies   Sept 2023 - Mar 2024
- Rebuilt flagship client-facing dashboard using asynchronous **TypeScript** functionality to reduce latency by 80% and visually represent user data
- Utilized **Palantir Foundry** APIs innovatively to adapt to client requirements and reduce load times for product-critical deliverables by up to 70%
- Architected an updated backend schema for over 1TB of client data and used **PySpark** to rebuild data pipelines for new backend-specific workflows
- Participated in a 24/7 on-call schedule to resolve multiple critical user-facing errors in displayed data, dysfunctional workflows and incorrect backend calculations

Software Development Intern · Amazon   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 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, led weekly labs and office hours on 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 **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
- Voted Top 2 project out of 31 by JPMC executive directors

PROJECTS

H20.ai · 17313 Class Project   Dec 2022
- Led a team of fellow students to make open-source front-end contributions
- Changed table representation in **TypeScript** to better visually represent filtered enumeration

StudySmart · TartanHacks 2020   Feb 2020
- Displayed historical campus data by packet-sniffing devices with **Kismet**
- 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, built entire project in **Xcode**

AWARDS/CERTIFICATIONS

- *Senior Leadership Recognition Award*, Demonstrated excellence in leadership while at CMU
- *Presidential Volunteering Service Award*, Did over 100 hours of volunteering service in 2018