

SIDDHARTH PARATKAR

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EDUCATION

Carnegie Mellon University

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

QPA: 3.51

Relevant Coursework:

- Parallel and Sequential Data Structures and Algorithms
- Principles of Imperative Computation
- Application Design and Development

SKILLS

Programming Languages:

Java · Python · JavaScript · C · SQL

Technologies/Frameworks:

Linux · Git · MongoDB · Spring · React · 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 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 double-click to expand, minimization and widget delete functionalities
- Created a MyTasks widget that filtered tasks from a **MySQL** database into buckets using a **REST API** and dynamically updated task counts per bucket
- Utilized a **Jenkins** wrapper to deploy the dashboard to the cloud

Teaching Assistant: Principles of Functional Programming · CMU

Jan 2021 - Aug 2021

- Employed within the **School of Computer Science**; expanded existing **GitHub** repositories by updating homeworks, labs and reference materials
- Constructed lesson plans for weekly 90 minute labs to teach topics such as **Higher Order Functions**, **Continuation Passing Style** and **Induction**
- Held 3 hours minimum of weekly office hours to help students work through challenging problems and conceptual questions

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
- Created a design that showed teachers student time on problem set, performance across problems and progress on current problem set
- Launched to Pittsburgh-area math teachers in 2021

PROJECTS

StudySmart · TartanHacks 2020

Feb 2020

- Developed website using **HTML**, **CSS**, and **Microsoft Azure** that displays number of people in a room within radius of a Raspberry Pi and packet-sniffs devices using **Kismet**, displayed historical data throughout day for various campus locations
- Top 6 project out of 51 at TartanHacks 2020, Best Beginner Hack award presented by 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