# Abhiraj Chatterjee

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## EDUCATION

**PENN STATE UNIVERSITY**
BS in Computer Science
May 2023 | State College, PA
GPA: 3.69

## LINKS

Github:// **abhiraj-chatterjee**
LinkedIn:// **abhirajchatterjee**

## COURSEWORK

### UNDERGRADUATE
Data Structures and Algorithms
Matrices
Security and Risk Analysis
Object Oriented Programming
Digital Design
Discrete Mathematics
Scalabilty
REST
Single-Page Apps

## SKILLS

### LANGUAGES
HTML • CSS • JavaScript • Python •
Swift • CQL • Kotlin • Java • SQL

### TOOLS & TECHNOLOGIES
React • jQuery • Git • Node.js • Heroku •
Webpack • MongoDB • Vue • Express •
Flask • Firebase • PostgreSQL •
Cassandra • DataStax Astra •
CockroachDB • Google Cloud • Xcode •
Parse • Android Studio

## HONORS

•**Best Use of DataStax Astra** at MLH
SharkHacks 2020 for **The Phobia**
•**Best Use of CockroachDB** at MLH Who
Wants To Be A Hackionaire 2020 for **The
COVID Times**
•**Wolfram Award** at HackDuke 2020 for
**Mindful Me**
•**7th/4500** at ACM ICPC for School 2018
(India)

## EXPERIENCE

**CODEPATH.ORG** | Technical Program Manager (iOS)
July 2020 - Present | San Francisco, CA
- **Found and manage** the CodePath at PSU **Girls Who Code College Loops** organization to help underrepresented college computer science students
- **Manage, lead and teach** complex topics like APIs, MVC Architecture, Database in Parse/MongoDB, WebKit, and more.
- Manage iOS development course **endorsed** by companies like **Google, Facebook, Amazon, Lyft, Slack, and Microsoft**
- **Developed** four projects for Tech Fellow Training - **Yelp, Flixster, Twitter, and Parstagram**

## PROJECTS

### SUSTAIN MARKET
Xcode, Swift, Parse, MongoDB Atlas, Vue, Express, Node.js
- A single-page e-commerce website for small businesses which create products from recyclable materials.
- Developed an iOS app for vendors to manage inventory and orders 30% faster.
- Adding a feature for users to gain points by donating recyclable materials.

### TIP CALCULATOR APP
Xcode, Swift
- Designed a rating algorithm to determine the tip amount.
- Added a feature for changing the currency based on the current location of the user.
- Persisted user data across multiple restarts using UserDefaults cache.

### MY MEMORY APP
Android Studio, XML, Kotlin, Firebase
- A customizable memory game for Android.
- Developing a leaderboard for users to compete amongst themselves.
- Added a feature for users to create custom games using images from their gallery.

### THE COVID TIMES
React, Flask, SQLAlchemy, CockroachDB
- A single-page quiz to determine whether you're ready to head out of your house.
- Developed a parser for question bank from json to SQLAlchemy ORM.
- Added a feature for tracking COVID-19 cases in user's current location.

### MINDFUL ME
React, Flask, Cassandra, Google Cloud, DataStax Astra
- A single-page web app for customized mental health support for students.
- Deployed website to Google Cloud App Engine with custom domain name.
- Added a feature for daily check-in of student's mental health.

## EXTRACURRICULARS

Penn State ACM ICPC Team • Blockchain PSU • Competitive Cyber Security Organization • LionLaunchpad SLO • THON **(Fundraising Specialist)**