Samarth Parekh

732-812-7364 | Personal Website | LinkedIn | GitHub | parekh.samarth@gmail.com

EDUCATION

University of Maryland

College Park, MD

Bachelor of Science in Computer Science, Minor in Mathematics GPA: 3.8

May '26

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming I & II, Discrete Structures, Computer Systems, Programming Languages, Linear Algebra, Calculus I, II, & III, Applied Probability and Statistics

EXPERIENCE

Software Engineer Intern

June 2024 - Present

US Food and Drug Administration - CORE — Python, Dash, TypeScript, Angular.js

College Park, MD

- Architected a synthetic data generator through the Dash framework to aid in streamlining the data generation and testing process improving the efficiency and accuracy of data generation and testing workflows
- \bullet Streamlined system operations and established standardized data sharing by architecting a JSON file upload capability decreasing manual entry time by 60%
- Contributed to the development of an open-source tool on GitHub to enable global agencies to address traceability concerns, achieving a reduction in manual labor across 10+ international organizations

Software Engineering Fellow

July 2024 - Present

Headstarter AI — JavaScript, HTML/CSS, React.js APIs

Remote

- Built 5+ AI applications and APIs using OpenAI, React.js, Pinecone with 98% accuracy as seen by 1000+ users
- Developed projects from design to deployment, leading 3 engineering fellows using MVC design patterns
- Coached by Amazon, Citadel, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

PROJECTS

Workout Architect | Custom Workout Plan Creator | React, JavaScript, Tailwind, HTML/CSS

View Site

- Developed a React web application to create custom workout routines with interactive features
- Utilized JavaScript, Tailwind CSS, and HTML to build and style the application, ensuring a responsive and visually appealing user experience
- Enabled users to select workout type, muscle groups, and workout goals to generate personalized workout plans, with 1000+ page views

TrackMyMoney | Financial Transaction Tracker | MongoDB, Express, React, Node.js, Postman View Code

- Engineered a robust server-side API with Express to efficiently retrieve and add transactions, boosting data retrieval speeds and managed transactions using MongoDB
- Created an interactive frontend with React, and executed server-side code through Node.js, ensuring seamless integration and functionality

Brain Boost | Mental Health Journaling App - HealthHacks | Swift, Firebase, SwiftUI

View Code

- Built a journaling app to allow for users, to improve their mental health through daily journaling use as suggested by studies
- Utilized SwiftUI to provide a coherent and simplistic interface for user-based access and Firebase to integrate a user database
- Won "Best Mental Health Hack" out of 40+ submissions at HealthHacks hosted by UPenn

MyPA | Personal Voice Assistant - HackDefy | Python

View Code

- Engineered a mini personal voice assistant with 10+ interactive features, enhancing user engagement and productivity
- Developed advanced text-to-speech and web scraping functionalities using BeautifulSoup4, gTTS, and pyttsx3, delivering comprehensive services like weather, time, and stock updates achieving a 30% reduction in task completion time for end-users
- Placed 4th out of 25+ submissions at HackDefy

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, C, MATLAB, SQL, OCaml, Rust Technologies: React, Angular, Node.js, Express, Postman, Firebase, APIs, Tensorflow, PyTorch, NumPy, Pandas, JUnit, Command Line, Git, GitHub, Google Suite, Microsoft Platforms, Shell/Bash, Linux, MacOS