

# Samarth Parekh

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## EDUCATION

### University of Maryland

College Park, MD

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

May 2026

**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*

College Park, MD

- Architecting 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
- Contributing to the development of an open-source tool to enable global agencies to address traceability concerns, achieving a reduction in manual labor across 10+ international organizations
- Presented a poster to 200+ people at the FDA Foods Program Regulatory Science Conference to highlight the current effort and innovative approach in enhancing global traceability efforts through open-source collaboration

### Software Engineer

September 2024 – Present

*Warriors Legacy Care — React Native, Django, PostgreSQL, Stripe API*

College Park, MD

- Developing a full-stack mobile application utilizing React Native to provide essential services to veterans, including long-term care, mental health services, and meals on wheels
- Integrating Stripe for payment processing and PostgreSQL with AES 256-bit encryption for secure data storage
- Selected to a 10-person team from 1400+ applicants in a competitive selection process

## PROJECTS

### TrackMyMoney | Financial Transaction Tracker | *MongoDB, Express, React, Node.js, Postman*

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- Created a transaction tracker with CRUD functionality to enable efficient management of transactions
- Engineered a high-performance full-stack application by designing an interactive React frontend and implementing an Express API, optimizing transaction retrieval and storage with MongoDB for seamless data management and smooth server-side operations with Node.js

### SmartCards.ai | AI Flashcard Creator | *Next.js, OpenAI, Stripe API, Clerk, Material UI, Firebase*

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- Built a SaaS platform for generating and managing AI-powered flashcards, leveraging Next.js for the frontend, Clerk for user authentication, and Firebase for backend services real-time data data storage
- Implemented OpenAI to dynamically generate flashcard content based on user input, and integrated Stripe for payment processing to allow for subscription-based access to features
- Deployed the application to track user engagement through detailed analytics collected through Firebase Analytics

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

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- Developed a dynamic React web application that allows users to create custom workout routines with interactive, user-friendly features
- Leveraged JavaScript, Tailwind CSS, and HTML to build and style the platform, ensuring a visually appealing and responsive user interface
- Enabled users to generate personalized workout plans by selecting workout types, muscle groups, and goals, attracting over 500+ page views

### MyPA | Personal Voice Assistant - HackDefy | *Python*

[View Code](#)

- Built a robust personal voice assistant with 10+ interactive features, enhancing user productivity and engagement
- Integrated advanced text-to-speech and web scraping capabilities using BeautifulSoup4, gTTS, and pyttsx3 to provide services like weather, time, and stock updates, cutting task completion time by 30%
- Achieved 4th place out of 25+ submissions at HackDefy for innovative features and seamless user interaction

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, TypeScript, HTML/CSS, C, MATLAB, SQL, OCaml, Rust

**Libraries and Frameworks:** React, Next.js, Node.js, Express, Tensorflow, PyTorch, NumPy, Pandas, JUnit

**Developer Tools:** Postman, Firebase, APIs, Command Line, Git, GitHub, Google Suite, Microsoft Platforms, Shell/Bash, Linux, MacOS