

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, Angular.js

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 titled "Advancing Food Traceability Visualization Through Open Source Software Development" to highlight the current effort and innovative approach in enhancing global traceability efforts through open-source collaboration

Software Engineering Fellow

July 2024 – September 2024

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

Remote

- Built 3+ AI applications and APIs using OpenAI, React.js, Pinecone as seen and used by 1000+ users
- Developed projects from design to deployment, leading 2 engineering fellows using MVC design patterns
- Coached by Amazon, Citadel, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

PROJECTS

SmartCards.ai | AI Flashcard Creator | *Next.js, OpenAI, Stripe API, Clerk, Material UI, Firebase* [View Code](#)

- 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

TrackMyMoney | Financial Transaction Tracker | *MongoDB, Express, React, Node.js, Postman* [View Code](#)

- Engineered a high-performance server-side API using Express, optimizing transaction retrieval and storage speeds with MongoDB for seamless data management
- Designed an interactive React frontend and executed server-side operations with Node.js, ensuring smooth integration and efficient functionality across the full stack

Workout Architect | Custom Workout Plan Creator | *React, Tailwind, HTML/CSS* [View Code](#)

- 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, Angular, 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