Parth Vasave

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Education

University of Mumbai Expected 2026
B.E. in Computer Science and Engineering (Data Science) *Mumbai, India*
- Relevant Coursework: Networks, DSA, OS, ML

MSBTE, Mumbai 2019 – 2022
Diploma in Computer Engineering *Mumbai, India*
- Relevant Coursework: Web Development, Android Development with Kotlin

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript

Web Frameworks & Libraries: React, Next.js, Node.js, Flask, FastAPI

Tools & Platforms: Git, Docker, AWS, Postman, RESTful APIs, Firebase, Vercel

Database Technologies: MySQL, Firebase Realtime DB, MongoDB

Experience

Android Developer Intern Oct 2021 – Feb 2022
Internship *Remote*
- Collaborated in a small team to design and develop features using Android Studio, focusing on user-centric design and functionality.
- Redesigned and implemented the recommendation module, enhancing performance and user engagement.
- Utilized Kotlin, Android Jetpack components, and JSON parsing to build dynamic and scalable features.

Projects

BrewUpdate | *Python, Brew CLI, macOS* GitHub
- Built a lightweight GUI-based Python app to visualize and manage HomeBrew packages on macOS.
- Allows users to list packages, inspect directory and file access, and manage file-level permissions.
- Implemented update checking, package removal, and permission modification features using Brew CLI.

NOTRACE | *React, Firebase, Genkit, Tailwind CSS* GitHub — Live
- Built a secure, anonymous real-time chat platform where users can join rooms and chat without accounts or personal information.
- Implemented real-time messaging using Firebase Realtime Database with optional PDF chat export using jsPDF.
- Focused on privacy-first principles—no authentication, no data logging, and fully anonymous session handling.

STEGANO | *Next.js, TypeScript, Firebase, Tailwind CSS* GitHub — Live
- Developed a browser-based LSB steganography tool to securely hide and reveal messages within images via pixel manipulation.
- Implemented binary encoding of text using TextEncoder API and embedded it in image pixel RGB values with real-time binary preview.
- All operations run entirely client-side for privacy, with responsive UI designed using Tailwind CSS and component logic via ShadCN and Lucide React.

Certifications and Courses

Harvard University: CS50: Introduction to Computer Science

Harvard University: CS50P: Programming with Python

University of Helsinki: Introduction to Programming, PYTHON MOOC

University of Helsinki: Advanced Course in Programming, MOOC (EXPECTED AUG 2025)

Stanford University: Introduction to Internet of Things