

Param Shukla

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EDUCATION

SVKM's Dwarkadas J. Sanghvi College of Engineering - CGPA: 9.10/10

2022 – 2026

Bachelor of Technology (B. Tech) in Computer Engineering

Mumbai, India

EXPERIENCE

Prodigy InfoTech – Full Stack Developer Intern

Jun 2025 - Jul 2025

- Architected and deployed 2 Spring Boot applications, including an Employee Management System and a contact manager with real-time chat, achieving less than 250ms latency with zero message loss in testing.
- Integrated Spring Security for user authentication and role-based access control, reducing unauthorized access incidents by 100% during testing.
- Containerized both applications using Docker, reducing deployment setup time.

Rogue Code - Software Developer Intern

Jun 2024 - Aug 2024

- Worked with Firebase Realtime Database for dynamic data storage and retrieval.
- Applied the Greedy algorithm to develop and optimize the scheduling algorithm, improving scheduling efficiency by ~62% based on dry run comparisons across multiple datasets.
- Developed backend functionality using Node.js and Express.js with RESTful APIs to support data editing and deletion.
- Implemented an Excel data export feature via xlsx library, reducing manual reporting by 80%.

PROJECTS

Money Overflow | React.js, Node.js, Express.js, Mongoose

[live](#) | [code](#)

Apr 2025 – Jun 2025

- A comprehensive financial literacy platform offering 10+ learning modules, financial blogs, real-time news updates, 5+ financial calculators, gamified quizzes, an investment simulation, and a community-driven Q&A system with Gemini API-powered AI support for personalized financial guidance.
- Designed backend architecture, creating Mongoose schemas for users, learning modules, blogs, quizzes & community Q&A.
- Implemented modular controllers and RESTful API routes to enable seamless CRUD operations.
- Improved UI design and optimized mobile responsiveness for a seamless experience across all devices.

Contact Vault | Spring Boot, Spring Security, Spring Data JPA, MySQL

[live](#) | [code](#)

May 2025 – Jul 2025

- Built a secure contact management system with CRUD operations, Cloudinary image uploads, pagination to reduce data load and improve performance, and search functionality across contact bases.
- Integrated WebSocket-based real-time chat, achieving an average response time of less than 250ms.
- Implemented Spring Security with role-based access control and BCrypt encryption, ensuring secure user authentication and route protection.
- Developed with Spring Data JPA (custom queries, MySQL) and Thymeleaf for efficient data access and dynamic rendering; containerized and deployed via Docker for streamlined deployment.

CodeWithDisability | Electron.js, Python, Google Web Speech API

[code](#)

Nov 2024 – Mar 2025

- Developed a voice-command-based IDE enabling individuals with physical disabilities to code, edit, compile, and execute programs entirely through speech, achieving ~80% first-attempt command recognition accuracy and ~3s average response time.
- Engineered two JSON-based datasets comprising 150+ voice commands — command mapping for translating spoken input to programming syntax, and actions mapping for controlling IDE operations (create, open, save, run, etc.).
- Developed a Python-driven speech recognition engine integrating Google Web Speech API to interpret spoken programming commands and convert them into code text.
- Implemented Electron.js as the GUI layer to handle user interactions, display real-time voice-to-code outputs, and communicate with the Python module via IPC for executing file, compilation, and IDE control actions.

Nurture Nest | React.js, Node.js, Express.js, Mongoose

[live](#) | [code](#)

Sep 2024 – Oct 2024

- A mobile-responsive NGO platform with dedicated admin and user portals, enabling admins to manage events, projects, staff, volunteers, and donation analytics. Features included event/project creation, PDF report generation, and for users, the ability to browse/join events, make secure donations, and receive key announcements.
- Built and managed backend architecture, including schema design for users, events, donations, staff, volunteers, and announcements. Developed modular controllers and RESTful API routes to handle full CRUD operations.
- Integrated Razorpay for payment processing and implemented Twilio API to automate SMS notifications for successful registrations, enhancing user communication and engagement.

RESEARCH WORK

Voice-Driven Accessibility in Programming: CodeWithDisability

Mar 2024 – May 2025

- Main author and presenter of the research titled "CodeWithDisability," presented at the 10th International Conference on Computer Science and Computational Intelligence (ICCSCI) 2025.
- Research paper accepted for publication in the peer-reviewed Procedia Computer Science Journal by Elsevier.

HACKATHONS

- Participated in 10+ hackathons, including securing 1st runner-up at TSEC Need for Code 3.0 (2024) and becoming a finalist at HackX 2.0 (2025).

TECHNICAL SKILLS

Languages: Java, C, SQL, JavaScript, Python

Frameworks & Libraries: Node.js, Express.js, Spring Boot, Spring Security, React.js

Database Systems: MongoDB, MySQL

Database ORMs: Mongoose, Spring Data JPA

Tools & Technologies: Docker, JDBC, Git, GitHub, VS Code, Postman, Vercel, Render