

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

Relevant Coursework: Data Structures, Algorithms, Database Management, Operating Systems, Computer Networks.

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, enhancing user data management.
- Built WebSocket-based real-time chat, achieving <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]

May 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 for all major features.
- 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 <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.

Banking System | Java, JDBC, MySQL

[code]

Jan 2025– Feb 2025

- Developed a secure banking system with user authentication via card number and PIN, along with new user registration and PIN change functionality to enhance security.
- Implemented core features used in real-time ATM systems, including deposit, withdrawal, fast cash, balance inquiry, fund transfer, and mini statement generation with PDF download support.
- Utilized Java with JDBC for MySQL integration to ensure efficient data handling and real-time transaction processing.

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 routes to handle full CRUD operations for all core features.
- 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

Oct 2024 – May 2025

- Main author and presenter of the research titled "CodeWithDisability," presented at the 10th International Conference on Computer Science and Computational Intelligence (ICCSICI) 2025.
- Developed a novel, hands-free voice-command IDE for accessible programming, enabling individuals with physical disabilities to code, edit, compile, and run programs entirely via speech.
- 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