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 *June 2025 - July 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 *June 2024 - August 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 | Team Project - React.js, Node.js, Express.js, Mongoose – [live][code] *May 2025 – June 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, and 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, Thymeleaf – [live][code] *May 2025 – July 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.
- Used **Thymeleaf** for dynamic server-side rendering of HTML content, enabling clean integration between backend logic and frontend views.
- Utilized **Spring Data JPA** with custom queries for efficient and scalable user-specific data access in a **MySQL database**.
- **Containerized** the application and **deployed** it using **Docker**, reducing deployment setup time.

Banking System | Java, JDBC, MySQL – [code] *January 2025– February 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 | Team Project - React.js, Node.js, Express.js, Mongoose – [live][code] *September 2024 – October 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.

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, Mongoose, Spring Boot, Spring Security, Spring Data JPA, React.js
Database Systems: MongoDB, MySQL
Tools & Technologies: Docker, JDBC, Git, GitHub, VS Code, Postman, Vercel, Render