Param Shukla

+91 9820385988 | shuklaparam09022004@gmail.com | linkedin.com/in/paramshukla
github.com/ParamShukla007 | paramshukla.vercel.app

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** a **Spring Boot–based Employee Management System** with **Spring Security** for **user authentication** and **role-based access control**, eliminating unauthorized access incidents during testing**.**
- **Containerized** the application using **Docker**, streamlining deployment and significantly reducing 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, Gemini API   **live | code**   *Apr 2025 – Jun 2025*
- A comprehensive **AI-enabled 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 .
- Implemented **AI automation** using **Gemini API** to power intelligent Q&A responses, blog summaries, financial analytics, and a learning assistance chatbot.
- Architected the backend with **Mongoose schemas** and **modular RESTful APIs** supporting **CRUD** operations for users, modules, blogs, quizzes, and community Q&A.
- 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**, reducing the average response time**.**
- Implemented Spring Security with **BCrypt PasswordEncoder**, enabling secure user authentication, authorization, and route-level protection.
- Developed with Spring Data JPA (custom queries, MySQL) and Thymeleaf for efficient data access and dynamic rendering; **containerize**d and **deployed** via **Docker** for streamlined deployment.

Code With Disability | 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 for translating spoken input to programming syntax, and 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 the Twilio API to automate SMS notifications for successful registrations, enhancing user communication and engagement.

RESEARCH WORK

Voice-Driven Accessibility in Programming: Code with disability   *Dec 2024 – May 2025*
- **Main authored** and **presented** the research paper "Code with disability" at the 10th International Conference on Computer Science and Computational Intelligence (ICCSCI) 2025**,** and successfully published in the Procedia Computer Science Journal by Elsevier.

SKILLS

Languages: Java**,** C, SQL, JavaScript, Python
Frameworks & Libraries: Node.js, Express.js, Spring Boot, Spring MVC, Spring Security, React.js
Database Systems & ORMs: MongoDB, MySQL, Mongoose, Spring Data JPA
Tools & Technologies: Docker, JDBC, Git, GitHub, VS Code, Postman, Vercel, Render
AI Tools: OpenAI & Gemini APIs, Cursor AI, Claude AI, GitHub Copilot, Prompt Engineering