VATSAL SHAH

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PROFESSIONAL SUMMARY

Aspiring Software Engineer with strong **full-stack development** skills, proficient in building scalable web applications using React, Node.js, and Spring Boot. Experienced in **API development**, **database design**, and eager to work with low-level system components. Adept at **problem-solving** with strong knowledge of data structures and algorithms.

EDUCATION

Fr. Conceicao Rodrigues College of Engineering   2022 - 2026
Bachelor of Engineering
Artificial Intelligence and Data Science
CGPA: 8.14

EXPERIENCE

Navlakhi | Backend Developer Intern   Mumbai, India | June 2024 - July 2024

- Collaborated with a team of 6 on the core project, following **agile practices** to ensure smooth integration of the new system.
- Developed **backend** and server-side logic in **PHP** and **Js**. Worked on **MySQL** Database.
- **Optimized database queries** and API performance, **reducing response time** of the system.

SKILLS

Programming Languages:	Java, C, JavaScript, PHP, Python, HTML, CSS
Libraries/Frameworks:	React, Node, Express, Nextjs, Springboot, Tailwind
Tools / Platforms:	Git, GitHub, XAMPP, AWS, VS Code
Databases:	MySQL, PostgreSQL, MongoDB
CS Fundamentals:	Data Structures and Algorithms, OOP, Database Management Systems

PROJECTS

Code Busters   *React, Node, Express, MySQL, Judge0*

- Built a web-based competitive coding platform with **custom rooms** and localized **leaderboards** for each room.
- Integrated **Judge0 API** for code execution and **custom test case validation** with automated scoreboard updates.

CardGenX   *Nextjs, Supabase*

- Developed an AI-based tool to **auto-generate flashcards** and summaries from PDFs with markdown notes, custom export, and smart filtering.
- Enabled **page-linked content**, letting users jump to exact PDF pages from flashcards and summaries for quick context.

Veracity   *React, Django, Firebase*

- **Deepfake Detection Model** – Built an image-based deepfake detection system using **CNN for facial classification** after face extraction.
- **Deployed as API Service** – Hosted the model as a standalone API with key-based access, offering endpoints like /**detect** and /**health** for easy integration.

Resolve *(Ongoing)*   *React, Springboot, MySQL*

- Built backend services for **authentication, project management, member handling, and join requests** with Spring Boot, MySQL, and Spring Data JPA.
- **Integrated APIs** with a React frontend (partially developed) to enable project collaboration, with planned extensions for **activity logs, bug tracking, and real-time notifications**.

CERTIFICATIONS

- **TensorFlow 2.0**: Deep Learning and Artificial Intelligence course. - Udemy.
- **HackerRank**: Java (Basic), SQL (Intermediate).
- **AWS Academy Graduate**: AWS Academy Cloud Architecting.

ACHIEVEMENTS

- **Finalist at HackDeck '24** - a 24 hour hackathon organized by Atharva College of Engineering.
- **Top 8 at SynTechXathon '25** - a 3 day hackathon organized by RD&SH National College.