RAJ MAKWANA

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Education

Nirma University	**August 2023 – June 2027**
Bachelor of Technology in Computer Science and Engineering : Grade - 9.21	*Ahmedabad, Gujarat*

Relevant Coursework

- Data Structures
- Database Management
- OOP
- NLP
- Algorithm Analysis
- Operating Systems
- Software Engineering
- Machine Learning

Experience

Matterassist	**January 2025 – June 2025**
Full-Stack Engineer Intern	*Ahmedabad, Gujarat*

- Engineered the platform through best software engineering practices and **Agile Methodologies**.
- Built and maintained scalable **RESTful** APIs using **Node Js** and **Flask**, utilized **MongoDB** for data persistence and Cloudinary for document storage.
- Developed **Web-Scraping** APIs in Python to automate data extraction and integrated structured results into services.
- Deployed backend on **AWS EC2** for server and **AWS Lambda** for serverless APIs.
- Designed **Team Dashboard** architecture from scratch, integrating modular components for team creation, member search and request management.

Projects

Concurrent Transaction Processor	*C++*	Github	**June 2025**

- Implemented **Bank Transaction** Processing using **Producer - Consumer** based solution with **Observer** system design pattern for **event-driven** architecture.
- Applied multithreading and thread synchronization for **concurrency** and **parallelism**, **OOP** principles for modular structure, **File Management** for CSV data input and **Exception handling** for runtime failures.

NowEv	*Flutter, Flask, MongoDB, Firebase, OpenCV, Tesseract OCR, Twilio, Square Payment*	Github	**March 2025**

- Developed backend services including authentication, **KYC verification**, wallet/payment modules.
- A **full-stack** Electric Vehicle rental management platform enabling users to verify identity, deposit amount, and unlock vehicles via **QR codes**.

PipeTest	*React Js, Flask, MongoDB, GitLab CI/CD, Gemini API*	Github	**March 2025**

- Developed Flask APIs for web scraping, **parallel** test execution using **multithreading**, and automated test case generation.
- An end-to-end autonomous software testing platform that analyzes **Figma** designs and test website URL, generates Selenium-script based test cases using LLM and executes, with integrated **CI/CD** Pull Request pipeline.

Technical Skills

Languages: C++, Python, Java, C, HTML/CSS, JavaScript, MySQL
Developer Tools: VS Code, Android Studio, Postman
Technologies/Frameworks: MongoDB, Express Js, React Js, Node Js, Flask, REST APIs
Cloud Deployment: AWS, Vercel, Firebase

Achievements

- **Bronze Medalist**, First Year Engineering – Awarded for outstanding academic performance
- Hacktoberfest'24 and '25 – Earned all-level badges through **Open Source Contribution**
- Leetcode **Knight** (Top 3.94%, Max Rating.1917) – Achieved Rank 672 in Weekly Contest 471, 25,000+ participants
- Codeforces **Pupil** (Max rating.1300) – Achieved Rank 3347 in Round 1032, 30,000+ participants (Profile Link)
- IICPC CodeFest'25 Prelims – Achieved Rank **1,942**, 45,000+ participants (Certificate)
- Meta Hacker Cup 2025 – Secured Rank **5,080** in Round 1 and **3,272** in Round 2 (Certificate)

Leadership / Extracurricular

- **NASA Space Apps Challenge 2024** — **Team Lead** – Our team became a **finalist (Top 5)** among **50+ teams**
- **Cubix 2025** — **Team Lead** – Our team won **3rd prize** in Competitive Coding Contest held by CSI Nirma Club