

VRAJKUMAR PATEL

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Education

Dhirubhai Ambani University <i>Master Of Technology in ICT (CPI: 8.39 / 10)</i>	2024 - 2026 <i>Gandhinagar, Gujarat</i>
Government Engineering College, Gandhinagar <i>Bachelor Of Engineering in Computer Engineering (CGPA: 8.00 / 10)</i>	2020 - 2024 <i>Gandhinagar, Gujarat</i>
New Era High School <i>12th PCM (Percentage: 83.23)</i>	2019 - 2020 <i>Vadodara, Gujarat</i>

Experience

Slash Mark IT Startup <i>Software Engineering Intern</i>	Jan 2024 – April 2024 <i>Remote</i>
<ul style="list-style-type: none">Completed 4 months of internship focused on the MERN stack, building full-stack projects and gaining hands-on development experience.Learned and applied version control practices (Git/GitHub) for collaborative development and project management.	

Projects

Serverless Projects API AWS Lambda, API Gateway, Caching, REST API	Demo
<ul style="list-style-type: none">Built a serverless API with AWS Lambda + API Gateway to serve portfolio data, replacing a slower Render backend.Implemented caching with Cache-Control/Last-Modified headers, achieving near-instant responses, zero cold starts, and no idle costs.	
Food-Delivery Website React, Node, Express, MongoDB, Postman	Demo
<ul style="list-style-type: none">Designed and implemented a mobile-responsive food-delivery platform featuring user authentication, menu browsing and shopping cartBuilt RESTful APIs with Express.js and integrated MongoDB for scalable and efficient backend data management.	
Task Manager App Node, Express, MongoDB, AWS	
<ul style="list-style-type: none">Developed a task management system enabling users to add, update, and delete tasks.Implemented RESTful APIs in Express.js and used MongoDB Atlas for secure cloud-based data storage.Deployed the application on AWS Elastic Beanstalk for reliable and scalable hosting at zero cost.	
Access Pattern-Aware Join Reordering Algorithm Python, PostgreSQL, Perf	
Guide: Prof. Minal Bhise <ul style="list-style-type: none">Designed a lightweight framework to study how join order affects cache performance by evaluating memory access patterns using perf counters.Generated and executed all 8 join permutations of TPC-H Query 5, logging runtime and cache misses to identify pattern-performance correlations.	

Technical Skills

Languages: C++, Java, HTML, CSS, JavaScript, Python

Developer Tools: Git, GitHub, Postman, Docker, AWS

Frameworks & Libraries: React.js, Node.js, Express.js, Tailwind CSS, NumPy, Pandas

Databases: PostgreSQL, MySQL, MongoDB

Soft Skills: Problem-Solving, Team Collaboration, Leadership, Communication

Coursework: Data Structures And Algorithms , Operating Systems, DBMS, CN, OOPS

Areas of Interest: Backend, Cloud, System Design, Competitive Programming

Achievements

- Secured AIR 6409 in Computer Science GATE 2024 among 1,23,967 candidates.
- Achieved Global rank of 31 in Codechef's START197 contest.
- LeetCode: 450+ problems solved — 1432 rating