

VRAJ MAYAVAT

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TECHNICAL SKILLS

Languages: JavaScript | Python | C++ | Java | SQL | Shell Scripting

Frameworks & Libraries: React | Node.js | Express | Next.js | Socket.io

Databases: MongoDB | SQLite | Neo4j | Redis

Tools & Platforms: Git | Vercel | Render | MongoDB Atlas | Postman | JWT Auth

Other: MATLAB (Image Processing) | OpenCV | Power BI

EDUCATION

Master of Applied Computing

University of Windsor, Windsor, Ontario

Sep 2024 – Dec 2025

Bachelor of Technology in Computer Engineering

Chandubhai S. Patel Institute of Technology, Anand, Gujarat

Aug 2019 – Apr 2023

CGPA: 8.4

RELEVANT EXPERIENCE

JLR Semiconductor Engineering / University of Windsor — Industry Project

Sep 2025 – Dec 2025

Python, DRAMSys, Genetic Algorithms, Linux

- Collaborated in a five-person team on a Python and DRAMSys pipeline for workload generation, memory simulation, configuration evaluation, and genetic-algorithm optimization
- Modeled ResNet-50-like memory traffic using approximately 500,000 events; team experiments improved simulated utilization by 70.09 percentage points for DDR4 and 42.98 for LPDDR4

Rocket Innovation Studio — Front-End Contributor, QuizCraft

May 2025 – Aug 2025

React, TypeScript, Next.js, Tailwind CSS, Material UI, Recharts

- Designed and developed most pages for a gamified quiz platform, including quiz creation, hosting, player participation, live questions, and results
- Built responsive interfaces, reusable React components, typed data structures, and Recharts visualizations within a shared team codebase

PROJECTS

[Collabo — Real-Time Collaborative Kanban Board](#)

Jul 2026 – Aug 2026

React, Node.js, Express, Socket.io, MongoDB, JWT

- Designed and deployed a full-stack collaborative kanban application using React, Node.js, Express, MongoDB, Socket.io, and REST APIs
- Implemented WebSocket-based synchronization for card and list operations, along with live user presence and cleanup after normal or unexpected disconnections
- Secured the application with JWT authentication, protected API routes, board-level authorization, ownership permissions, and member invitations
- Built optimistic drag-and-drop updates with asynchronous persistence and error recovery, then deployed the frontend and backend using Vercel, Render, and MongoDB Atlas

[Job Tracker — Full-Stack Application Tracking Platform](#)

Jun 2026 – Jul 2026

React, Node.js, Express, MongoDB, JWT

- Developed and deployed a full-stack application-tracking CRM with JWT authentication and user-scoped CRUD operations
- Designed protected REST API endpoints with authorization and ownership validation, ensuring users can access and modify only their own application records
- Built responsive board and timeline views with company search, status filtering, recency grouping, and derived application statistics
- Integrated automatic company-logo retrieval with graceful fallback handling and configured production deployment using Vercel, Render, MongoDB Atlas, environment variables, and CORS