

VALLEN DSOUZA

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EDUCATION

Fr. Conceicao Rodrigues College of Engineering
B.E. in Computer Engineering

Nov 2022 – Jun 2026
Mumbai, Maharashtra

EXPERIENCE

Customer Engineer Intern

March 2026 – June 2026

BrowserStack

- Designed and delivered Proof-of-Concept (PoC) solutions integrating BrowserStack Local Testing and Azure DevOps into CI/CD pipelines, enabling enterprise customers to automate cloud testing workflows.
- Collaborated with Product and Engineering teams to troubleshoot complex integration issues, analyze system requirements, and deliver scalable, reliable solutions across testing and automation platforms.
- Developed technical demos and implementation guides for AI-powered testing and accessibility products, simplifying customer onboarding and accelerating adoption of modern testing workflows.

Full-Stack Intern

Dec 2025 – Feb 2026

Celeris Ventures

- Built a full-stack tender management platform using Node.js, Express.js, React, Redux, and MongoDB, designing scalable RESTful APIs to streamline procurement workflows.
- Designed and implemented **8+ backend modules**, MongoDB schemas, and secure JWT-based authentication and authorization, enabling reliable data flow across complex multi-step application workflows.
- Collaborated in an Agile development environment, participating in sprint planning, code reviews, unit testing, and cross-functional discussions to deliver clean, maintainable, and high-quality software.
- Monitored application health using **Grafana** and **Sentry**, troubleshooting logging, state synchronization, and data consistency issues to improve system reliability, maintainability, and overall application performance.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL

Core CS: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, System Design

Backend Development: Node.js, Express.js, REST APIs, Microservices, API Integrations, Authentication, JWT, WebSockets, Caching

Databases: PostgreSQL, MongoDB, MySQL, Redis

Cloud and DevOps: AWS (EC2, S3, Lambda, IAM, ECR, ECS), Docker, CI/CD (GitHub Actions), Git

Frontend: React.js, Next.js, HTML, CSS

AI and Data: Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), LangChain, RAGAS, Prompt Engineering, Vector Embeddings

Tools: GitHub, Postman, Selenium, Sentry, Vercel

PROJECTS

Velora AI – Multi-Tenant AI Customer Support SaaS | Next.js 15, Convex, Clerk, AWS, Vapi, Turborepo | [GitHub](#)

- Architected and deployed a multi-tenant AI customer support platform featuring real-time messaging and AI-human escalation workflows, implementing scalable backend services, database design, authentication, session management, and third-party API integrations using Next.js, Convex, and Clerk to deliver contextual AI-powered customer support.

Hirely – AI Interview & Evaluation Platform | Next.js, TypeScript, PostgreSQL, Vercel AI SDK, Docker | [Live](#)

- Architected and deployed an AI-powered interview evaluation platform using **Next.js, PostgreSQL, Docker, and Vercel AI SDK**, implementing scalable backend services, REST APIs, database design, and authentication workflows to support real-time interview assessments for **50+ users**.

ACHIEVEMENTS

Competitive Programming: **LeetCode Knight** (1892 Contest Rating, Top **4.81%**); Contest Rank **262/34,424**; **Codeforces Pupil** (1071); Contest Rank **4541/31,223**; Solved **900+** algorithmic problems across LeetCode and Codeforces.

Hackathons: **Winner** — **HackVerse 5.0** (National-level EdTech Hackathon among **500+** teams); **First Runner-up** — **HackSpark 1.0** (State-level Climate Intelligence Hackathon).

Project Impact: Built and deployed **Hirely**, an AI-powered placement preparation platform used by **50+ students**, adopted by the department and recommended by faculty for campus placement preparation.