

Vaishnavi Vedantha

Full Stack Software Engineer | React.js | FastAPI | MongoDB

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PROFILE

Software Engineer experienced in full-stack development using React.js, Node.js, and Python (FastAPI). Skilled in building REST APIs, implementing RBAC, and developing secure applications with MongoDB, MySQL, and Docker.

CORE SKILLS

Languages

JavaScript, Python, HTML5, CSS3

Frontend

React.js

Backend

Node.js, Express.js, FastAPI, REST API Development

Databases

MongoDB, MySQL, PostgreSQL

DevOps & Tools

Docker, MinIO, Git, GitHub, Postman

Concepts

RBAC, Authentication & Authorization, Password Hashing, API Integration

PROFESSIONAL EXPERIENCE

Full Stack Developer

Changma Shristi Pvt Ltd

02/2026 – Present

Bengaluru, India

Projects:

1. XOffice (Ongoing)

Tech Stack: React.js | Python (FastAPI) | MongoDB | MinIO | Docker

- Designed and developed a full-stack enterprise access management system with separate Admin and User modules using React, Python (FastAPI), and MongoDB.
- Implemented an Admin Dashboard to monitor system usage with User Overview analytics, displaying total users and system activity.
- Built a secure License Management module enabling upload and validation of .lic files using public/private key cryptography for software license verification.
- Developed Role-Based Access Control (RBAC) with three permission levels: Full Access, Project-Level Access, and Restricted Access, enabling controlled feature usage across the platform.
- Created a User Management system allowing administrators to create users, automatically generate secure random passwords, and export credentials as downloadable TXT files. Implemented secure authentication mechanisms including password hashing and role-based authorization to enforce user-level access control.
- Integrated MinIO object storage for efficient file handling and license file management.
- Containerized the application using Docker to enable consistent deployment and scalable development environments.

Software Engineer

IBAB

03/2024 – 12/2024

Bengaluru, India

Projects:

1. Attendance Management System

Tech Stack: React.js | Node.js | MySQL

- Designed and developed a custom full-stack software solution using a 3-tier architecture to streamline student attendance tracking via QR code scanning.
- Built and deployed RESTful APIs for seamless data exchange between the frontend (React) and backend (Node.js).
- Worked with MySQL for efficient data modeling, query optimization, and real-time faculty dashboard updates.
- Troubleshoot and debugged performance issues to ensure smooth QR code scanning and data syncing.

- Collaborated in an Agile environment to deliver incremental updates through sprint-based development.
- Applied OOP concepts such as Inheritance and Polymorphism to reuse common logic across APIs and generate dynamic responses based on user type (students/faculty).

2. Faculty Recruitment Application

Tech Stack: React.js | Node.js | MySQL

- Developed and maintained a full-stack web application following a 3-tier architecture to manage faculty job applications, reviews, and role-based access.
- Designed and implemented RESTful APIs to support customized user dashboards.
- Utilized MySQL to manage structured applicant and review data with optimized query logic.
- Conducted performance diagnostics and resolved backend issues to maintain high availability and responsiveness.
- Worked with cross-functional teams in Agile sprints to ensure timely feature delivery and updates.

Network Engineer

NTT DATA Inc.

08/2022 – 10/2023
Bengaluru, India

Projects:

1. HDFC Bank – Network Operations Support (08/2022 - 03/2023)

- **Tools & Technologies:** Xshell | MS Excel | ITSM.
- Logged into routers and network devices using Xshell to monitor and troubleshoot network issues.
- Diagnosed network downtime and guided bank branches in restarting routers to resolve local connectivity issues.
- Identified partial outages and raised docket numbers in service provider portals, documenting incidents for follow-up.
- Collaborated with bank branches and service providers to ensure prompt issue resolution.
- Followed escalation protocols by routing tickets to the appropriate network support teams.
- Maintained detailed incident records using ITSM for tracking and reporting purposes.
- Participated in root cause analysis to minimize recurring network issues and enhance reliability.

2. MCN Operations – Network Troubleshooting (03/2023 - 10/2023)

- **Tools & Technologies:** ITSM | Cisco vManage | Cisco Meraki | XTAM.
- Logged into Cisco vManage to check router and network device status, capturing screenshots for documentation.
- Analyzed network problems, identified root causes, and escalated complex issues to Level 2 support.
- Raised docket numbers for lower-level network component issues, ensuring proper tracking in ITSM.
- Collaborated with stakeholders to ensure timely resolution and provided updates on issue status.
- Used Cisco Meraki for monitoring and diagnosing network issues and XTAM for securely managing credentials.
- Continuously updated ticket statuses and maintained communication between teams for effective resolution.

CERTIFICATES

- Frontend Development (HTML) Certification
- ReactJS Tutorial Course Certification
- ReactJS for Beginners Certification
- SQL for Beginners: Learn SQL using MySQL and Database Design Course

EDUCATION

Bachelor of Engineering (B.E.) in Information Science and Engineering
Atria Institute of Technology, Visvesvaraya Technological University (VTU)

08/2018 – 07/2022
Bengaluru, India

ADDITIONAL INFORMATION

- Passionate about building scalable backend systems and exploring modern web technologies.
- Interested in AI/ML workflows and automation using large language models.