Vaibhav Patil

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SUMMARY

Skilled and passionate Full Stack Developer with 2+ years of experience specialising in the MERN stack and scalable web applications. Proven expertise in designing robust APIs, optimising performance, and delivering end-to-end projects from concept to deployment.

SKILLS

Tech Stack	NestJS, NodeJS, ExpressJS, ReactJS, MongoDB, Redis, AWS (SQS, SNS, S3), REST, gRPC, K6, Jest
Languages	TypeScript, JavaScript, Java, Python, Go (Basic), HTML, CSS
Concepts	Object Oriented Programming, Microservice Architecture, Database Management System, Networking, Data Structures and Algorithms

WORK EXPERIENCE

Software Engineer I - Contentstack — Mar 2025 - present

- Designed and developed APIs around Contentstack's CMS using **NestJS, NodeJS, Redis**, and **MongoDB**, while meeting the SLA's and maintaining the **99.9%** of uptime and P95 latency less than **100 ms**.
- Developed end-to-end taxonomy feature, migrated legacy Content Models API's to microservices.
- Built a custom validation package and implemented a low-latency algorithm to validate complex graph-based data structures.
- Enhanced CI/CD pipelines using GitHub Actions, and built observability dashboards and alerting systems to enable proactive issue detection and faster response times.

Associate Software Engineer - Contentstack — Aug 2023 - Mar 2025

- **Led** the development of a dynamic tree-based permissions system. Did the performance testing of APIs using **K6**.
- Integrated TDD in development processes and added a comprehensive unit and integration testing framework, achieving code coverage **more than 95%**.
- Enhanced and built **React** components in Contentstack's CMS User Interface.
- Identified and resolved critical bugs in Contentstack's core CMS modules, ensuring high platform stability and seamless content management experience for enterprise clients.

PROJECTS

Image Size Optimisation Demo App — *ReactJS, Go, Python, Postgres, Redis, S3*

- Developed a full-stack image optimisation tool that uses **BRISQUE CNN** to evaluate image quality.
- Automated image compression and storage on S3 to minimise size without perceptible loss.

TFTP Server Github Repo — *Python, UDP*

- Built a lightweight Trivial File Transfer Protocol server handling read/write operations over UDP.
- Implemented packet-handling and error recovery for reliable and efficient data transfer.

ACHIEVEMENTS

Above & Beyond	Honored at Contentstack for exemplary performance and significant contributions.
Runner Up at Techsurf	Secured runner position in Contentstack's annual undergraduate hackathon

EDUCATION

2019 - 2023	Bachelor of Technology at **MIT Academy of Engineering, Pune**	(GPA: 8.2/10.0)