

Shawan Mandal

+91 7002508690 | contact@imshawan.dev | linkedin.com/in/shawan-mandal | github.com/imshawan

SUMMARY

A passionate backend-focused, full-stack engineer with 3+ years of experience and a strong track record of building scalable, high-performance systems. Proven ability to optimize backend architectures, enhance system reliability, and lead technical initiatives. Adept at designing efficient APIs, improving system performance, and collaborating with cross-functional teams. Committed to delivering secure, maintainable solutions while driving innovation and technical excellence.

EDUCATION

Margherita College

Bachelor of Science, with Computer Science

Margherita, Assam, IN

Aug. 2018 – 2021

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, Golang

Frameworks: React.js, React Native, Node.js, Express, Next.js, Spring Boot, Hibernate ORM, Flask, NGINX, Bootstrap, Tailwind, jQuery, Selenium

Databases: PostgreSQL, MongoDB, Realm

Developer Tools: Git, GitHub Actions, VS Code, IntelliJ IDEA, Nano, AWS, Azure, DigitalOcean

Architecture & DevOps: Microservices, API Design & Integration, Caching (Redis, LRU), Load Balancing, WebSockets, Message Queues (Kafka, RabbitMQ)

EXPERIENCE

Software Engineer

DeepThought EduTech Ventures Pvt. Ltd.

January 2023 – present

Hyderabad, Telangana, IN (Remote)

- Being one of the founding engineers of the organization's tech architecture, I provide mentorship, technical guidance, and support to new team members. I assist them in understanding the code-base, architectural principles, and best practices, and take ownership of complex development tasks.
- Playing a key role in the recruitment process, I evaluate candidates' technical skills, problem-solving abilities, and cultural fit to build a high-performing development team.
- Designing, developing, and maintaining scalable microservices for DT's clients using Core Java, Spring Boot, Hibernate, PostgreSQL, and RabbitMQ to support LMS functionality, ensuring high performance and reliability.
- Developing and maintaining reusable React components for a learning management system (LMS), adhering to best practices, and ensuring a seamless user experience. Leading the creation of Node.js proxy services for third-party integrations.
- Collaborating closely with design teams to translate Figma prototypes into high-fidelity, responsive UI components, ensuring design consistency across the application.
- Lead a team of 10+ engineers for innovation projects, which include the development of the project and leave management system, recruitment system, mass communication engine, and data infrastructure portal utilizing Apache Kafka.
- Engaging in client communications, aligning technical implementations with business objectives, conducting release demos, and collaborating with external service providers to ensure smooth project execution.
- Taking an active role in client servicing, hiring, and conducting technical interviews to assess personality, problem-solving abilities, and cultural fit within the organization.

Software Developer & Team Lead

DeepThought EduTech Ventures Pvt. Ltd.

May 2022 – December 2022

Hyderabad, Telangana, IN (Remote)

- Worked as a Full Stack Software Engineer with various technologies like Node.js, Express, React.js and React Native, MongoDB, Bootstrap, Git, GitHub, NGINX, Smarty, jQuery, DevOps, and many more.
- Actively worked and led collaboratively with cross-functional teams, such as technical product managers, and UI/UX designers, to ensure successful software development and delivery.
- Provided mentorship, support, and technical expertise to new team members. Assisted them in understanding the code base, architectural concepts, and best practices.
- Involved in the recruitment of new developers to assess candidates' skills, problem-solving abilities, and cultural fit within the team.

Software Development Intern

Sept 2021 – April 2022

DeepThought EduTech Ventures Pvt. Ltd.

Hyderabad, Telangana, IN (Remote)

- Worked as a Back-end focused full-stack software developer with MERN stack and other technologies that include NGINX, Mocha & Chai.js, Smarty, jQuery, Benchpress.js.
- Actively worked with the product team for product brainstorming, research, and development.
- Worked on data mining and developed some tools using web-scraping libraries like BS4 and selenium in Python used by the teams for sales intelligence.

PROJECTS

RapidServe | *Under development* | *Next.js, TypeScript, AWS S3, MongoDB, Redis*

Feb 2025 – present

- Architected a high-performance monolithic file storage and retrieval system, optimized for scalability, caching efficiency, and secure access control.
- Implemented a resumable chunked file upload mechanism with SHA-256 hashing for de-duplication and efficient storage management on AWS S3.
- Developed a metadata service using MongoDB to track file distribution, enable rapid lookups, and optimize storage queries.
- Implemented multi-layer caching with LRU and distributed Redis caching to reduce database load and improve response times.
- Designed a secure, token-based access system to enforce authentication and prevent unauthorized access to stored files.
- Maintained code-base integrity and community engagement through adherence to best practices, and version control with Git.