

Shawan Mandal

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SUMMARY

Software engineer with 4+ years of experience building and maintaining scalable systems in production environments. Strong focus on system design, performance optimization, and reliability. Experienced in owning backend components, improving system stability, and solving complex engineering problems. Currently seeking a mid-level software engineering role where I can contribute to building robust, maintainable systems.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Scala

Frameworks: React.js, Node.js, Express, Next.js, Spring Boot, Hibernate ORM, Akka

Databases: PostgreSQL, MongoDB

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

Architecture & DevOps: Microservices, API Design & Integration, WebSockets, Kafka, GitHub Actions

EXPERIENCE

Software Engineer

April 2025 – Present

Avlino India Pvt. Ltd.

Bengaluru, Karnataka, IN (Hybrid)

- Worked on a suite of optimization-driven engines that together form the complete yard management solution for container terminal operations. Ensured consistent and coordinated operation across all engines by managing integration points, execution order, and data dependencies.
- Worked on software for Yard Segregation engine which is an optimization-based system for dynamically allocating and managing container yard space using real-time and forecasted inflow and outflow data.
- Contributed to a 48-hour planning engine responsible for optimal container positioning based on forecasted container flows and other data points relevant for decision making.
- Worked on long-horizon planning software operating on a 30-day window to align strategic yard plans with short-term execution.
- Owned Kafka-based data pipelines, service integration and data consistency across all engines.
- Monitored solution quality, debugged, and stabilized production systems to ensure reliable operation of mission-critical yard management workflows.

Software Engineer

May 2022 – April 2025

DeepThought EduTech Ventures Pvt. Ltd.

Hyderabad, Telangana, IN (Remote)

- As one of the founding engineers, developed the organization's core technical infrastructure by understanding and extending an open-source codebase, and built products including the LMS, project management system, leave and invoice management, and SSO systems on top of it.
- Worked with one of DT's client for development of LMS & Content Admin App for English enrichment across different proficiency levels of a user using Java (Spring Boot), Hibernate ORM and React.js, and led the development of Node.js proxy services for third-party AI integrations.
- Collaborated closely with design teams to translate Figma prototypes into high-fidelity, reusable responsive UI components, ensuring design consistency across the application.
- Mentored a team of 10+ engineers for the innovation projects within the organization. Few projects that I oversaw includes the development of candidate on-boarding system, data infrastructure portal utilizing Kafka, and mass communication engines.
- Engaged in client communications, aligning technical implementations with business objectives, conducting release demos, and collaborating with external service providers to ensure smooth project execution.

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 to develop LMS tools 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.

EDUCATION

Margherita College

Bachelor of Science, with Computer Science

Margherita, Assam, IN

Aug. 2018 – 2021