

SOUVIK DAS

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Profile Summary

Software Engineer at **Capgemini** with **1 year of full-time experience** and **4 months prior internship**. Skilled in **Java, TypeScript, Node.js, and REST API development**. Hands-on experience in **backend development, LLM tool integration via the Model Context Protocol (MCP), unit testing, and production support**.

Technical Skills

Languages: Java, C++, C, JavaScript, TypeScript, SQL
Frameworks & Libraries: Node.js, Next.js, Express.js, React, Spring Boot, Socket.IO
Databases: MySQL, MongoDB, Firebase / Firestore
Backend & DevOps: REST APIs, OpenAPI / Swagger, JPA, Git, Jenkins, JIRA, Postman, AWS EC2
AI / LLM: Claude API, Model Context Protocol (MCP), LLM tool-use design, prompt engineering
Core Concepts: Data Structures & Algorithms, OOP, System Design Basics, Linux, GDB

Work Experience

Capgemini | Software Engineer **June 2025 – Present**

- Developed and executed **unit tests** for backend modules, improving **code coverage** and reducing production defects before release.
- Performed low-level debugging using **GDB** on C/Linux systems, identifying and resolving critical runtime issues.
- Validated builds using a **local Jenkins setup** to ensure code stability before integration into upstream pipelines.
- Tracked, triaged, and resolved defects through **Jira**, collaborating with cross-functional teams for timely delivery.

Mphasis Ltd. | Associate Software Developer Intern **February 2025 – May 2025**

- Collaborated with senior technical leads to develop and maintain backend features in a **Spring Boot** application based on user stories.
- Worked with **JPA** for database persistence and **MySQL** for relational data management.
- Contributed to **OpenAPI / Swagger** documentation to ensure clear and standardized API contracts.
- Performed unit testing using **JUnit** and **TestNG**, and contributed to **automation testing with Selenium**.

Side Projects

Lovng.com | Freelance Full-Stack Developer

- Built a custom **Model Context Protocol (MCP) server** exposing **30+ tools** over **Firestore** — covering venue/event/user management, event publishing, sales analytics, and transactional email — enabling non-technical staff to operate the platform via natural-language prompts in **Claude** and significantly reducing manual operations.
- Developed the **Venue Portal** using **Next.js (TypeScript)** and **Firebase**, allowing users to view past and upcoming events and share them via **WhatsApp** and **Instagram**, alongside a **Venue Admin Portal** for owners to create, update, and manage events and schedules.
- Diagnosed and resolved critical **production issues** in a live environment, including event data inconsistencies and payment flow disruptions, providing ongoing **deployment support** for platform stability.
- Led **full website migration to a new domain**, including DNS updates, environment configuration, and post-migration validation, ensuring uninterrupted access and data integrity.

Personal Projects

ConnectSphere — Social Networking Web App | *React, Redux, Node.js, Express, MongoDB, Socket.IO*

- Architected a full-stack **MERN** application with a modular client-server structure, **JWT and Google OAuth (Passport.js)** authentication, RESTful APIs for users and posts, Mongoose schemas for users/posts/messages, and a **Socket.IO** layer for real-time bidirectional communication.

FeastFly — Food Ordering Platform | *Node.js, Express.js, Socket.IO, EJS, MongoDB, Laravel Mix, SCSS, AWS EC2*

- Architected a scalable **MVC** web application using **Express.js** and **Mongoose**, leveraging **Socket.IO** with Node's **EventEmitter** for real-time order broadcasting, **Passport.js** with **bcrypt** for secure authentication, and **Laravel Mix** to bundle **SCSS** and JavaScript assets.
- Enabled customers to browse the menu, manage a session-based cart, place orders, and track live status updates, while admins manage incoming orders and update statuses through a protected dashboard that refreshes in real time.

Education

Chitkara University

Bachelor of Engineering in Computer Science and Engineering

August 2021 – June 2025

GPA: 9.01 / 10