

# Souvik Mondal

## Full Stack Enginnner

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### SKILLS:

**Languages:** PHP, Javascript, NodeJs, TypeScript, SQL, HCL

**Technologies & Tools:** React.JS, Node.Js, Sql-Server, Express, Fastify, Jest, Docker, Kubernetes, SwaggerAPI, ViteTest, Kind, MiniKube, Git, Github, GitLab, Next.Js, mongodb, Mongoose, Prisma, aws lamda, amazon SES, S3, ElasticSearch

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### WORK EXPERIENCE

#### Senior Software Engineer , CodeClouds IT Solutions (Kolkata)

Dec 2021 - Present

- Spearheaded the creation of more than five high-traffic React applications, integrating SSO (single sign-on) with Okta, utilizing Google, Facebook, and Apple authentication providers for a seamless sign-in experience.
- Developed scalable backend services with Node.js and MongoDB, employed AWS Lambda functions for serverless autoscaling, and implemented Redis with a time interval for response caching, which resulted in a 70% reduction in server costs and decreased response time from 840 ms to just 12 ms.
- Mongoose, Node.js, bunjs, git, GitHub, AWS Lambda, SwaggerAPI, Jest, Docker, S3, MongoDB Atlas.

#### Software Development Engineer , Netware (Kolkata)

June 2021 - Oct 2022

- Contributed to a secure banking web app with HTML, CSS, JS, Bootstrap & MySQL. Added an interactive dashboard with auth + Chart.js visualizations, improving decision-making by 40%.
- Built 10+ JavaScript features (form validation, dynamic rendering), improving usability & reducing errors by 25%.
- JavaScript (ES6), MySQL, Bootstrap 4.0, Chart.js, MySQL Workbench, Docker.

#### Technology Associate , A Pixel House (kolkata)

Jan 2020 - Apr 2021

- Started as a PHP dev, delivered 25+ websites from PSD/Figma/XD mockups into responsive SEO-optimized builds, improving load times by 35%.
  - Developed dynamic web apps using MySQL, PHP, JSON & mock JSON servers for front-end testing, boosting feature dev speed by 20%.
  - Core PHP, Laravel, MySQL, JSON-server, Javascript, HTML, CSS, Material UI, BootStrap 4.0.
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### EDUCATION

#### Bachelor of Computer Applications (BCA)

Feb 2017 - Mar 2020

West Bengal State University (WBSU)

- Specialization in Web Development, MERN Stack, and DevOps Tools.
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### PROJECT WORK

#### bootcamp and course enrollment API end to end (2025):

I developed a complete end-to-end Node.js backend API designed for managing bootcamp and course management alongside an enrollment service. This system features:

##### Role-based Access Control:

- User, Publisher, Admin.

##### Protected Routes:

- Authentication and authorization are implemented using JWT tokens. session less. followed REST standard.

##### AWS Lambda Serverless Functions:

- Enables automatic scaling for efficient resource management.

##### Document DB:

- Mongoose ODB for creating the model and MongoDB Atlas DB for managing the data.

**Amazon SES Service:**

- Facilitates password reset emails with a five-minute validity period for reset links.

**Redis In-Memory Database:**

- Utilized to cache response times for a specific duration, reducing server requests.

**Hosting:**

- Deployed on Amazon Beanstalk and Render.com.

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**personal Portfolio website with Next.js (2024):**

I developed my personal website to showcase my work and experience, complete with a comprehensive CV. The site offers options for both downloading and online viewing, while highlighting my current interests and significant projects. Additionally, it includes live hosting links for the projects and a GitHub link for code previews.

**Amazon SES Service:**

- Enables direct communication from the Amazon SES service to deliver emails straight to my inbox.

**WhatsApp & AI ChatBot integration:**

- Integrates WhatsApp API for seamless access to my chat box, along with an AI chatbot that can answer questions about me, my skills, experience, tech stack, expertise, hobbies, and more.
- trying to integrate the MCP server's new concept into the chat integration (in beta phase).

**Hosting:**

- Hosted on a custom server with a Cloudflare proxy server for IP security and SSL protection.
- vercel

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## ADDITIONAL INFORMATION

- **Technical Skills:** Project Management, Structural Analysis, Client Handling.
- **Languages:** English, Hindi, Bengali
- **Certifications:** Node.js, React.js, Linux Essentials (LPI), Docker & Kubernetes Fundamentals
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