

Dipankar Karmakar

Senior Software Engineer

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Professional Summary

- Having 4.8 years of Programming experience in Software Development.
- Having experience in developing back-end apps using **Node with Express JS & Hapi JS**.
- Hands-on experience in **MEAN/MERN Stack Environment**.
- Having knowledge in **AWS EC2 Instance, Serverless, AWS Lambda, AWS S3, AWS SQS, AWS IAM, AWS EventBridge, and NGINX**.
- Having the ability to work on both the client-side and server side.
- Experience in analysis, coding, and implementation of business applications.
- Cohesive team worker, having strong analytical, problem solving and interpersonal skills.

Education

- **Bachelors of Technology(ECE)** from **Maulana Abul Kalam Azad University of Technology, W.B.**
- **Indian School Certificate(ISC)** from **St. Joseph & Mary's School, W.B.**
- **Indian Certificate of Secondary Education(ICSE)** from **St. Joseph & Mary's School, W.B.**

Experience Summary

- Working as a **Senior Software Engineer** for **Learning Closet Pvt. Ltd. (Examपुर)**, **Delhi** (December 2022 to Present).
- Working as a **Senior Software Engineer** for **upGrad Education Pvt. Ltd., Bangalore** (July 2021 to December 2022).
- Worked as a **Senior Software Engineer** for **Bitelit Technologies, Bangalore** (February 2019 to July 2021).

Skills

- **Programming language** - JavaScript, HTML, CSS, and TypeScript
- **Advance Technology** - Node with ExpressJS & HapiJS, MEAN Stack Environment, React, Redux, Redis
- **Web/Application Services** - AWS EC2, AWS S3, Serverless, AWS Lambda, AWS SQS, AWS IAM, AWS EventBridge, Nginx, Docker
- **Database** - MongoDB and PostgreSQL
- **Third Party** - JWT, Telegram API, AWS SDK, Telegram, LeadSquared
- **Email and SMS Services** - Sendinblue and Valueleaf
- **Unit Test Cases** - SuperTest and Jest
- **Source Control** - GitHub, BitBucket

Project # 1: Exampur

Organization : Learning Closet Pvt. Ltd. (Examपुर) and upGrad Education Pvt. Ltd. | **Duration** : July 2022 to till date | **Environment** : NextJS, NodeJS | **Tools Used** : Visual Studio and Git | **Servers** : AWS | **Database** : MongoDB and PSQL | **Team Size** : 3 | **Admin Portal Link**: <https://content-admin.prod.exampur.xyz/> | **Exampur LMS App Link**: [Exampur App](#)

Description & Responsibilities :

Analyzed requirement, architect and developed web services for LMS and admin portal. Created pipeline services to synchronize data in between version 1 and version 2 systems. As per requirements, I wrote several scripts to provide necessary system data for analysis.

Project # 2: Live Streaming

Organization : Bitelit Technologies, upGrad Education Pvt. Ltd. and Examपुर | **Duration** : January 2020 to till date | **Environment** : Angular 6+, ExpressJS, HapiJS | **Tools Used** : Impartus, Videocrypt, Visual Studio and Git | **Servers** : E2E Networks, AWS | **Database** : MongoDB and PostgreSQL | **Team Size** : 1

Description & Responsibilities :

Analyzed requirement, architect and developed, made required modifications and provided support to Live Streaming Services along with Admin portal to manage the live classes and extracted necessary data, for The Gate Academy, upGradjeet and upGrad-Exampur.

Project # 3: LMS, SMC, WEBSITE, SMS - THE GATE ACADEMY

Organization : Bitelit Technologies | **Duration** : October 2019 to January 2022 | **Environment** : Angular 6+, JavaScript, HTML5, CSS3, NodeJS(ExpressJS) | **Tools Used** : Visual Studio and Git | **Servers** : E2E Networks | **Content Storage** : AWS S3 | **Database** : PostgreSQL | **Team Size** : 2

Link - LMS(Learning Management System) : <https://lms.thegateacademy.com/>

Link - SMC(System Management Console) : <https://smc.stg.thegateacademy.com/>

Link - Website : <https://www.thegateacademy.com/>

Link - SMS(Sales Management System) : <https://cms.thegateacademy.com/>

Description & Responsibilities :

THE GATE ACADEMY LMS platform now owned by IMS India (also known as "GATE ACADEMY" amongst students) is one of the first premier GATE and other exams coaching institute with 50+ centers across the country. THE GATE ACADEMY is founded by alumni of IISc (Indian Institute of Science) and IITs (Indian Institute of Technology).

Analyzed requirement, architect and developed modules to manage LMS, Admin Portal and Discovery Portal. Provided support for issue fixes, feature add ons and modifications.

Project # 4: HLS Transcoder

Organization : Bitelit Technologies, upGrad Education Pvt. Ltd. and Examपुर | **Duration** : December 2020 to September 2022 | **Environment** : Angular 6+, ExpressJS | **Tools Used** : FFmpeg, Visual Studio and Git | **Servers** : E2E Networks, AWS | **Database** : MongoDB and PostgreSQL | **Team Size** : 2

Description & Responsibilities :

Developed custom built HLS Transcoder to transcode the content videos for The Gate Academy, upGrad and Examपुर. The in-house HLS transcoder is built so that cost to transcode the videos can be controlled as well as mutate parameters of transcoding easily as per organizational requirements.

Project # 5: upGradjeet Signup Flow

Organization : upGrad Education Pvt. Ltd. | **Duration** : March 2022 to July 2022 | **Environment** : React, Redux, NodeJS | **Tools Used** : Truecaller SDK, Visual Studio and Git | **Servers** : AWS | **Database** : MongoDB | **Team Size** : 2 | **Link**: <https://play.google.com/store/apps/details?id=com.upgradjeet>

Description & Responsibilities :

Developed a user Login and Registration system with OTP, truecaller(*implemented only for m-site) and password based authentication. The system helped the organization with better user experience and increased the conversion of signed up leads.

Project # 6: NuGen Mobility Summit 2019(ICAT)

Organization : Bitelit Technologies | **Duration** : March 2019 to November 2019 | **Environment** : Angular 6+, NodeJS | **Tools Used** : Visual Studio and Git | **Servers** : AWS | **Database** : MongoDB | **Team Size** : 1

Description & Responsibilities :

ICAT organized NuGen Mobility Summit 2019 from 27th to 29th November, 2019. This event aims to bring together the industry, research and academic experts to share, discuss and showcase new automotive proposals. Developed a platform for enrollment and to get insights on the summit. Created an admin portal to manage the registered users.