

Adhyyan Tripathi

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Summary

I am a proficient software engineer with a strong data structure and algorithm foundation, which I leverage to solve complex problems. My experience spans developing robust web applications using the MERN stack and cloud computing. I have a knack for designing scalable applications. My commitment to continuous learning and improvement, coupled with my technical skills, make me an asset to any forward-thinking software development team.

EDUCATION

Sikkim Manipal Institute of Technology (SMIT), Sikkim Manipal University (SMU) (CGPA: 8.81) Sikkim
Bachelor of Technology in Computer Science Engineering July 2017-Aug 2021

PROJECTS

Pico-Url | [WebPage](#) | [Github](#)

- Developed a URL-shortening service using base62 encoding, providing users with short, easy-to-share URLs.
- Designed the application with **scalability** in mind, minimizing collisions and ensuring complete **concurrency**.
- Adopted a **microservices** architecture for the entire application, enabling seamless communication between services using **RabbitMQ**.
- Leveraged **MongoDB** as the persistent database, while **Redis** was utilized for caching, enhancing the speed of read operations.

E-commerce | [WebPage](#) | [GitHub](#)

- Devised a robust website utilizing the **MERN** stack, incorporating essential features for online payments.
- Integrated **Stripe payment gateway** into the E-commerce platform, ensuring secure and seamless transactions for customers.
- Designed and implemented **RESTful** APIs to facilitate efficient communication and data exchange between the client and server.
- Strengthened the application's security by implementing **JWT**-based user authorization.
- Employed **Docker** to containerize the application for simplified deployment, and successfully hosted it on a suitable platform.

Notes | [Typescript](#) | [Express.js](#) | [Webpage](#) | [Github](#)

- Developed a user-friendly notes application, enabling users to create, read, update, and delete notes, utilizing **Express** and **TypeScript**.
- Managed user authentication and authorization using **Passport.js's** local strategy, with **cookies** and **sessions** for secure access.
- Crafted middleware for authorization and designed **error handlers** for efficient error tracking and resolution.
- Employed **React.js** for client-side development, enhancing the user interface with **Material UI**.

EXPERIENCE

Capgemini Technology Services India Limited

Bengaluru, Karnataka

Analyst / Software Engineer

October 2021 – November 2022

- Successfully completed an intensive three-month training program focusing on **Node.js**, **Express.js**, and **MySQL**.
- Nominated for Microsoft Azure Fundamentals certification, and received full sponsorship for the certification based on my performance in training.
- Demonstrated consistent capability through daily individual and group assignments.

Open-Source Contribution

Project: neetcode-gh/leetcode

Description: A platform designed to facilitate progressive problem-solving skills development.

- Identified missing content on the platform and contributed solutions to address those gaps.
- Collaborated with moderators through pull requests to integrate improvements into the original repository.

Technical Skills

Programming Languages – C, C++, JAVA (Collections Framework), Python
Web Development – Git, Github, MySQL, Javascript, Passport.js, Typescript
Cloud Computing – Docker, Microsoft Azure Fundamentals.