

# Adhyyan Tripathi

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## Summary

I am a software engineer with a knack for problem-solving who likes to solve challenging real-world problems by leveraging my skills to their fullest. My continuous learning mindset and strong proficiency in the MERN stack are an asset to any progressive 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

### E-commerce | [Webpage](#) | [Github](#)

- Devised a robust website incorporating essential features such as **Stripe** online payments and email service.
- Backend was developed using **Express** with **Typescript** and **TypeORM** with **Postgres**.
- Designed and implemented private and protected **RESTful** APIs to facilitate efficient communication and data exchange between the client and server.
- Added features such as **search functionality** and **pagination** to greatly improve user experience.
- Strengthened the application's security by implementing **Passportjs JWT** strategy user authorization.
- **Node mailer** handled the email, and a separate service was created to manage email initiations.
- Data was transferred from the e-commerce service to the email service using a **Messaging Queue (BullMQ)** based on top of Redis to asynchronously send order details to the user's email.
- Crafted the frontend with the help of **React (Vite + typescript)** along with **TailwindCSS** and **Shadcn UI**.
- **Redux Toolkit** and **Redux Thunk middleware** were used to centralize the state management and facilitate data retrieval from the server.

### 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.

### Notes | Typescript | Express.js | PERN | [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.
- Data and sessions are stored on the cloud Postgres database.
- 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** – Docker, Microsoft Azure Fundamentals, JAVA (Collections Framework), Python, Git, Github