

ASHUTOSH DWIVEDI

Aspiring Software Engineer

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EDUCATION

Chandigarh University

Degree in BE Computer Science and Engineering
CGPA: 8.26

Mohali, Punjab

2021 - Present

Lions School

Degree in 12th Standard - CBSE Board
Percentage: 92.8%

Mirzapur, Uttar Pradesh

2018 - 2019

SKILLS

Programming Languages: C++, JAVA, HTML, CSS, Javascript
Libraries/Frameworks: ExpressJS, NodeJs
Tools / Platforms: Git, GitHub, VS Code, Docker
Databases: MySQL, MongoDB

PROJECTS / OPEN-SOURCE

FlyTEX : Airline Booking Backend API

NodeJS, ExpressJS, Sequelize, ORM, RabbitMQ

- Built a scalable backend for an airline platform enabling users to search, filter, and book flights (including return and multi-city trips).
- Implemented advanced filters (price, time, duration, airline, stops) with prioritized listings and pagination.
- Developed a notification system for flight price tracking and delay alerts to improve user engagement.
- Designed a Microservices-based architecture using Sequelize ORM, MySQL, and Docker for modular and scalable development.
- Integrated email services for real-time updates.

Twitter Backend API

NodeJS, Express, MongoDB, RestAPI, MVC, Passport.js

- Developed post creation with a 250-character limit, image uploads, hashtags, and user interactions (likes, comments, retweets).
- Built a nested commenting system with support for liking both posts and comments.
- Designed user profiles showing name, bio, followers, and recent posts to boost engagement.
- Implemented a follower-based feed with optimized pagination for smooth performance.
- Integrated secure authentication and authorization using Passport.js with Node.js, and MongoDB.

LiveLine : Real-time Chat Application

NodeJS, ExpressJS, Socket, MongoDB

- Developed a real-time chat application using Node.js, Express.js, Socket.IO, and MongoDB.
- Implemented persistent message storage in the database.
- Enabled real-time, bi-directional communication between users using WebSockets.
- Ensured efficient message broadcasting to all connected clients.

CERTIFICATIONS

- Discrete Mathematics - NPTEL.
- Probability and Statistics - NPTEL.

HONORS & AWARDS

- Elite + Silver Medal - Discrete Mathematics (NPTEL)
- Elite + Gold Medal - Internet of Things (NPTEL)