

ASHUTOSH DWIVEDI

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Education

Chandigarh University

Bachelor of Engineering in Computer Science

CGPA: 8.17

Mohali Punjab

2021-Present

Lions School

CBSE Intermediate (12th)

Percentage: 92.8

Mirzapur, Uttar Pradesh

2018-2019

Skills

Programming Language: C++, JavaScript, Java, HTML, CSS

Libraries/Frameworks: ExpressJS, NodeJS

Tools/Platform: Git, GitHub, VS Code, Jupyter Notebook

Databases: MySQL, MongoDB

Projects/Open-Source

FlyTEX: Airline Booking Backend API

NodeJS, ExpressJS, Sequelize, ORM, Docker

- 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, ExpressJS, MongoDB, RestAPI, MVC

- 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 JWT 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 e-client message broadcasting to all connected clients.

Certifications

- Internet of Things – NPTEL
- Discrete Mathematics – NPTEL
- Probability and Statistics – NPTEL

Honors & Awards

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