

Aayush Makhija

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EDUCATION

Manipal University Jaipur

B.Tech (Computer and Communication Engineering)

Jaipur, Rajasthan

Expected Graduation: July 2026

- o **Concentrations:** Full-Stack Development and Data Science
- o **Related Coursework:** Computing in C, Data Structures & Algorithms, Object-Oriented Programming in Java, Computer Networks, Database Design using SQL, Operating Systems, Web Development, Software Engineering, Soft Computing, Artificial Intelligence and Machine Learning, Data Mining and Warehousing

SKILLS

Programming: C, Golang, JavaScript, HTML/CSS, SQL, Python, Java

Tools: Node.js, npm, Git, Docker, Bootstrap, Postman

Databases: Postgres, MySQL

EXPERIENCE

Celebal Tech

Pune, Maharashtra(Remote)

Backend Development Intern

May 2025 – Present

- Built a flight booking chatbot using **Node.js** and **Microsoft Bot Framework** to automate user interactions, reducing manual search time by **60%** and enabling seamless booking from **30+ airlines** via natural language conversations.
- Integrated **real-time price comparison**, **secure payment gateway**, and **multilingual support**, improving user satisfaction and accessibility across diverse regions.
- Completed **10+ backend assignments** using **Express.js** and **MySQL**, enhancing API design, data handling, and chatbot integration skills.

Invimatic Tech

Pune, Maharashtra

Software Development Intern

May 2024 – July 2024

- Developed plugins in **Golang** and **Caddy**, automating over **500 SSL certifications** through the **ACME** challenge process.
- Created a **Go** plugin with **Kong** to streamline **API management** and enhance backend functionality.
- Gained hands-on experience with **DNS servers** and backend tools like **Postman** while exploring **.NET** fundamentals.

PROJECTS

Interactive Journal

Jaipur, Rajasthan

Lead Developer

Jan 2025 - Apr 2025

- Developed an interactive journal that leverages sentiment analysis to help users reflect on their emotions and thought patterns through everyday writing.
- Applied natural language processing techniques like tokenization, stop word removal, and TF-IDF vectorization, combined with machine learning models (Logistic Regression and Naive Bayes), achieving 77.8% accuracy on real-world emotional datasets.

Music Playlist Management System

Pune, Maharashtra

Lead Developer

December 2023

- Engineered a music playlist management system leveraging Golang and PostgreSQL, enabling CRUD operations, and enhanced playlist retrieval speeds by 60%, the fastest in team history.
- Designed a scalable backend architecture to ensure efficient data handling and system performance.

CERTIFICATIONS

- Foundations of Data Science - Google Coursera
- Introduction to Software Engineering - IBM Coursera
- System Administration - Red Hat
- CCNAv7 Introduction to Networks Cisco Networking Academy CISCO
- C Programming - UC Santa Cruz

ACTIVITIES AND LEADERSHIP

Smart India Hackathon 2024

Jaipur, Rajasthan

Team Lead

Aug 2024 – Sept 2024

- Led a team in developing a career counselling portal for addressing unemployment and guiding students, participating in a nationwide competition with over 250 teams.

NPTEL Design and Analysis of Algorithms

Achieved a top 5 percentile rank in the prestigious NPTEL Design and Analysis of Algorithms exam conducted by IIT Madras, showcasing strong analytical and problem-solving skills.