

# AMOGH JAIN

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## Education

The LNM Institute of Information Technology (LNMIIT)

Sep 2022 – May 2026

Bachelor of Technology in Electronics and Communication Engineering

Jaipur, Rajasthan

- Specialization: Artificial Intelligence & Data Science

## Technical Skills

**Programming:** JavaScript, Python, C, C++, Data Structures & Algorithms

**CS Fundamentals:** DBMS, SQL, Operating Systems, Object Oriented Programming

**Web Development:** NodeJS, ExpressJS, Flask, REST API Design, CSS, React, Vue, MongoDB, Redis

**Machine Learning:** NumPy, Pandas, Jupyter, Scikit-learn, TensorFlow, Keras

**Software Development:** Git, Github, Docker, RabbitMQ, Elasticsearch

## Experience

Software Developer Intern

Jan 2026 – Present

Provakil

Pune, India

- Built and refined Vue.js UI components, improving frontend rendering and application responsiveness
- Designed an internal service health-check and API validation flow to detect Docker, connectivity, and service-level failures, reducing issue diagnosis and debugging time by ~25%.
- Engineered automation scripts for cross-environment account synchronization between production and UAT servers, ensuring reliable transfer of application data and configurations with minimal manual intervention
- Debugged and optimized RESTful APIs in Sails.js while working with RabbitMQ queues for background task handling and service-to-service communication.
- Worked with the on-premises deployment team to troubleshoot issues directly on client servers, managing services within Dockerized environments.

## Projects

YelpCamp | JavaScript, NodeJS, ExpressJS, MongoDB, Authentication, RESTful API, CSS, Bootstrap

- Developed a campground listing platform with server-rendered EJS templates and scalable modular backend architecture.
- Implemented full CRUD functionality for campgrounds and reviews with secure authentication, session management, middleware handling, and form validation using Passport.js, Express sessions, and Joi.
- Integrated third-party services including Cloudinary for image uploads, MapTiler for geolocation, and OTP-based workflows for enhanced user functionality and security.
- Deployed on Vercel: [Live Demo](#) | [GitHub Repository](#)

Movie Recommender | Python, Scikit-learn, Natural Language Processing, Pandas, Flask, Tailwind CSS

- Developed a Flask-based movie recommendation system with movie search and recommendations.
- Utilized content-based filtering with Bag of Words text representation and Cosine Similarity to suggest movies based on user preferences and movie metadata.
- Integrated the TMDb API to fetch real-time movie details and poster images for displaying movie information.
- Deployed on Render: [Live Demo](#) | [GitHub Repository](#)

## Achievements

### Competitive Programming

- Achieved a rating of 1717 (Top 11.8%) on LeetCode and 1226 on Codeforces, demonstrating strong algorithm skills.

IEEE Publication | Co-Authors: Dr.Gopinath Samanta, Dr.M.V.D Nair

- Co-authored a paper in IEEE MAPCON 2024, recognized for contributions to Biomedical and Microwave Engineering.
- "A Triple Band Implantable Antenna for Wireless Power Transfer and Bio-Telemetry Applications": [IEEE Xplore](#)

### Certifications

- Completed Amazon ML Summer School 2025, gaining hands-on experience with advanced machine learning techniques.
- Earned Machine Learning Specialization by Andrew Ng on Coursera, mastering core ML concepts and algorithms.

## Volunteering

Teaching Assistant - Data Structures & Algorithms Laboratory

Jan 2024 – May 2024

LNMIIT

- Facilitated 3-hour weekly coding labs for 100+ students, strengthening their debugging ability and algorithmic reasoning through hands-on coding sessions
- Guided implementation of core data structures and algorithms using C/C++.

## Web Links

- Github: [amogh04](#) | LeetCode: [amogh\\_jain](#) | Codeforces: [amoghjain](#)