

PIYUSH TRIVEDI

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LinkedIn | Github | LeetCode |

Education

MNNIT Allahabad, Prayagraj

B.Tech in Electronics and Communication Engineering

Expected June 2026

CPI: 7.47/10.0

Work Experience

AlgoUniversity

SWE Co-op Internship

June 2025 – July 2025

Offsite

- [Live link](#)
- [Source Code](#)
- [Project Demo](#)
- Project assigned: create an **online judge**.
- Developed **CodeHub**, an online judge platform delivering verdicts, a leaderboard, and AI code suggestions.
- Achieved secured code execution via **Docker** containerisation, ensuring isolation and code security.
- Designed & Implemented features such as tags, problem difficulty, dashboard, and custom compiler using **Node.js child_process**.
- Successfully created a Coding Platform that supports **4** programming languages (C++, C, Java, and Python) for problem-solving and giving verdict and offers code suggestions using AI.
- Deployed the CodeHub platform on AWS using ECR for container registry and EC2 for compute instances.
- **Tech Stack Used:** React, Node.js, Express, MongoDB, Docker, Google Gemini 2.0 Flash.

Projects

Onebox Email Generator

🔗 [Source Code](#)

- Developed a full-stack email aggregator for unified management of multiple email accounts, featuring real-time IMAP synchronization.
- Implemented lightning-fast, full-text search functionality using Elasticsearch, containerized with Docker, to support instant email retrieval and filtering across all connected accounts.
- Leveraged Google Gemini AI to automatically categorize incoming emails and generate context-aware reply suggestions, significantly improving workflow efficiency.
- Integrated Slack Webhooks to push real-time notifications for emails classified as critical, enhancing team visibility and responsiveness.
- Tech Stack Used: React, Node.js, Express.js, and MongoDB, with Tailwind CSS for the user interface.

LifeCare: MERN Healthcare Portal

🔗 [Source Code](#)

- Built a healthcare portal to enhance **MERN** Stack skills.
- Implemented secure user and admin authentication with **JSON Web Tokens** and role-based access control for safe routing and data privacy throughout the system.
- Designed **RESTful APIs** for fundamental features, providing strong backend communication.
- Developed a dual-interface MERN application with distinct user and admin dashboards that support real-time interaction and scalable design.
- Integrated MongoDB with Mongoose to model data efficiently and enable smooth CRUD operations throughout the platform.
- Successfully developed a platform for users to get appointments and for admins to perform **CRUD** operations.

Technical Skills

Languages: C++, Python, JavaScript

Backend: Node.js, Express.js

Frontend: React.js, HTML, CSS

Databases & Cloud: MongoDB, AWS

Developer Tools: Docker, Git, VS Code

Methodologies: Agile Development, Scrum, TDD, SDLC

Achievements and Certifications

Achievements

- Solved over **500** coding problems on various platforms like LeetCode, GeeksforGeeks and TJO.
- Achieved **98.8 percentile** in JEE-MAINS 2021.
- Secured **3rd Rank** in Research Gap in college annual Tech-Fest Avishkar 2024.
- Member of PR Team Culrav-Avishkar 2024.

Certifications

- Docker, Kubernetes
- AWS Cloud Technical Essentials
- TDD & BDD