

AKASH KUMAR SINGH

akashsingh3414@gmail.com • +91 9795478092
LinkedIn • GitHub • Leetcode • GeeksforGeeks

EDUCATION

IIIT Manipur	B.Tech, Computer Science and Engineering	8.23/10	2022 - 2026
PGSS School, Kushinagar	Class XII (CBSE)	95.4%	2019 - 2021
JNV, Kushinagar	Class X (CBSE)	97.4%	2014 - 2019

EXPERIENCE

- Software Developer Intern** Truxie (Prayas Logistics) 05/2025 – Present
 - Contributed to building scalable back-end services using **NestJS**, **TypeScript**, **PostgreSQL**, and **Docker**, and optimized database schemas and queries for improved performance.
 - Enhanced software reliability by maintaining comprehensive **unit** and **end-to-end tests** in **Jest**, boosting test coverage by **40%** and minimizing production issues.
 - Developed and integrated **50+ REST APIs**, collaborating with cross-functional teams to enhance performance, security, and scalability while following clean design patterns within an **Agile** environment.

SKILLS

Languages:	JavaScript, TypeScript, Python, C/C++
Frameworks & Libraries:	Node.js, Express, NestJS, Jest, React, FastAPI, PyTorch, Numpy, Pandas
Databases:	PostgreSQL, MongoDB, MySQL, Supabase
Cloud & DevOps:	Docker, AWS (EC2, VPC), CI/CD, Git, GitHub
Core Concepts:	OOPS, Operating Systems, DBMS, Computer Networks, Linux

PROJECTS

- NeuroSonic Audio CNN** *Pytorch, Numpy, Pandas, FastAPI, Docker, Python* [GitHub](#)
 - Developed and evaluated an environmental sound classifier using Mel Spectrograms and a ResNet-based CNN with preprocessing on the ESC-50 dataset, achieving **80%** classification accuracy.
- SwiftChat** *MongoDB, Express, React, Node.js, Socket.IO, PeerJS, Zustand* [View](#) [GitHub](#)
 - Built a real-time **communication platform** with **Socket.IO**-based messaging, **spaces** for organizing group conversations, and integrated **WebRTC** for video calling & group video streaming using CDN.
 - Implemented **user presence tracking** and managed global state using **Zustand** and **Tailwind** for a smooth and responsive user experience.
- ThoughtFlow** *MongoDB, Express, React, Node.js, Redux Toolkit, OAuth2.0* [View](#) [GitHub](#)
 - Created a secure full-stack **blogging platform** with **JWT**-based authentication, user registration, content publishing, and role-based access control for different user roles.
 - Implemented **admin features** for content moderation and user management, and enhanced the front-end using **Redux Toolkit** and **Tailwind CSS** for a clean, responsive UI.

ACHIEVEMENTS

- Achieved 1631 LeetCode rating (top 19% globally) by solving 500+ DSA problems across LeetCode and GFG.
- Authored 300+ commits on GitHub, strengthening back-end systems, applying best practices in version control, and driving effective team collaboration.