

SIDDHARTH KUMAR

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Profile Summary

Software Engineer experienced in building production-ready MERN applications, real-time WebSocket platforms, and automated cloud deployments (Docker, AWS, Nginx). Solved 800+ DSA problems. Seeking a Software Engineer role to apply problem-solving and full-stack systems engineering.

Technical Skills

Programming Languages : C++, JavaScript, Python

ML : Scikit-learn, TensorFlow NumPy, Pandas, Matplotlib, Seaborn, PyTorch, FastAPI, Streamlit

Web Technologies : HTML, CSS, React.js, Express, Socket.io

DevOps Tools : Git/Github, Docker,, Kubernetes, Linux, Jenkins, AWS, Nginx, n8n

Backend & Databases : API Integration, Node.js, MySQL, MongoDB

Core Concepts : Data Structures & Algorithms (DSA), OOPS, DBMS, Computer Networks, Operating System

Education

Master of Computer Applications (MCA)

Maulana Azad National Institute of Technology (MANIT) Bhopal, Madhya Pradesh

CGPA: 7.88

2024 – 2027

Projects

Virtual Queue Management System (WaitWise) — [waitwise.me](#)

Jan 2026

- Built a Full-Stack Virtual Queue System using the MERN stack (MongoDB, Express, React, Node.js) to eliminate physical waiting lines and reduce customer wait times by 50%.
- Replaced HTTP polling with Socket.io WebSockets, slashing client-side network overhead by 90%.
- Engineered responsive admin/user dashboards using React.js , secured via JWT in HTTP-only cookies and custom Express Role-Based Access Control (RBAC).
- Deployed the containerized services using Docker Compose on an AWS EC2 instance, configuring Nginx as a reverse proxy, AWS Route 53 for domain routing.
- **Tech Stack:** MongoDB, Express.js, React.js, Node.js, JWT, Socket.io, AWS EC2, Docker, REST API, Git

Intrusion Detection System (IDS)

March 2026

- Built a hybrid IDS that fuses XGBoost classification with Isolation Forest anomaly detection.
- Achieved 98.9% accuracy with XGBoost classifier and 87% anomaly detection accuracy, outperforming baseline models.
- Conducted Exploratory Data Analysis (EDA) and handled class imbalance (79:21) using balanced class weights.
- Engineered features by applying Random Forest feature importance, selecting top 12 impactful features from 80+ network flow attributes.
- Data Handling: CICIDS-2017 dataset, preprocessing (missing values, duplicates, encoding), feature engineering.
- **Tech Stack:** Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, XGBoost

Certifications & Achievements

DevOps Internship (Vaidsys Technologies) – Remote (Nov 2025 – Dec 2025)

Completed a structured internship program focused on DevOps practices and tools. Gained hands-on experience with CI/CD pipelines and containerization (Docker).

Front End Web Development Internship – IBM SkillsBuild (Aug–Sept 2025)

Completed a 6-week internship on Front End Web Development in collaboration with AICTE, implemented by Edunet Foundation and IBM SkillsBuild.

Problem Solving Intermediate (HackerRank): Certified in intermediate-level problem-solving and algorithmic thinking through HackerRank's skill certification test.

Naukri Campus — CodeQuezt #21 Coding Contest: Secured All-India Rank 64 out of 26,445 participants, demonstrating strong competitive programming and problem-solving abilities.

LeetCode & GFG: Solved 800+ DSA problems cumulatively, earning the LeetCode 365 Days Badge for consistent daily practice and completing the GFG 160-Day Challenge