

DIXIT KUMAR

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EXPERIENCE

KIMBAL

Jan 2025 – Present

Software Developer Intern

Remote

- Refactored 5,000+ lines of embedded C/middleware code, reducing execution time by 30% and improving code readability.
- Minimized UI-state duplication by 35% through decoupling of logic layers and reusable module design.
- Created internal decoding tool for optical signals integrated into labeling pipelines, boosting throughput by 60%.
- Authored 30+ test cases using FTA tools, increasing test automation coverage by 50%.
- Eliminated manual errors by automating serial communication testing, reducing QA cycle time by 66%.
- Resolved communication dropouts in field devices, raising packet delivery reliability to 95%.

Amazon ML Summer School

Jun 2024 – Aug 2024

Mentee – Applied Machine Learning Program

Remote

- Chosen in top 0.5% out of 80,000+ applicants nationwide.
- Completed 120+ hours of hands-on modules in supervised/unsupervised learning, deep learning, and deployment pipelines.
- Delivered 5 ML projects using Scikit-learn and AWS Sagemaker to solve classification and regression problems.

Bharat Intern

May 2024 – Jun 2024

Full Stack Developer Intern

Remote

- Collaborated with 8-member team to ship 5 web apps using MERN stack with REST APIs, reaching 95% satisfaction in client feedback.
- Integrated authentication, dashboards, and CRUD endpoints with 98% test coverage using Mocha and Postman.

PROJECTS

Chatify – Real-time Chat App | MERN, Socket.IO, Tailwind

Live Demo — [GitHub](#)

- Built end-to-end chat platform with real-time communication, 100ms response time, and online status detection.
- Integrated **Socket.IO** for 2-way messaging, typing indicators, and push alerts.
- Designed responsive interface in Tailwind; handled up to 500 concurrent connections in testing.
- Secured sessions using JWT, password hashing, and access-based routing.

JOB-ZEE – Job Portal Platform | React, Node.js, MongoDB, Tailwind

Live Demo — [GitHub](#)

- Deployed job search portal enabling 150+ recruiters to post, manage 300+ jobs, and 500+ candidates to apply.
- Created secure login/register flows and role-based dashboards using JWT, bcrypt, and React Router.
- Earned 92% UX approval from user survey; optimized load times under 2s with server-side pagination.

Sorting Visualizer | HTML, CSS, JavaScript

Live Demo — [GitHub](#)

- Visualized classic sorting algorithms (Bubble, Merge, Quick) with step-wise animations for learning clarity.
- Customizable array size, speed, and highlight colors; improved user interaction by 40% from baseline design.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, SQL, HTML/CSS

Frameworks/Tools: React.js, Node.js, Express.js, MongoDB, Tailwind, Git, Docker, AWS, Postman, REST APIs, MVC

AI/ML: Scikit-learn, Pandas, Prompt Engineering, Model Deployment

Core CS: OOP, DSA, Design Patterns, Multi-threading, Unit Testing

Embedded: Gurux, Docklight, Logic Analyzer, CS+ IDE

ACHIEVEMENTS

- Solved 850+ DSA problems on LeetCode; rated 1850+ (Knight).
- 3-star (1600+) on Codechef.
- 300+ Data Structure and Algorithms questions on GFG.