

VAIDIKA KAUL

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SUMMARY

Full-stack developer building production-grade web and AI systems with scalable backend and modern frontend engineering. Experienced in shipping secure, end-to-end products in remote environments.

PROJECT EXPERIENCE

MAKNE - SaaS Platform for Brand–Creator Collaboration - [Live](#) | [GitHub](#)

[Tech Stack: *Next.js, TypeScript, Node.js, MongoDB, Tailwind CSS, JWT, REST APIs, Render*]

- Architected and shipped a production-grade SaaS platform supporting 2 user roles and a 3-stage agreement lifecycle implementing milestone-driven execution workflows with strict state validation and structured MongoDB schema design.
- Engineered 40+ JWT-secured RESTful API endpoints with role-based access control (RBAC) and permission-scoped data access, while building a responsive, modular dashboard system enabling end-to-end agreement tracking, milestone submissions, and revision cycles across desktop and mobile environments.

Noctura - Production-Grade Full-Stack Productivity Platform - [Live](#) | [GitHub](#)

[Tech Stack: *React, Node.js, Express, MongoDB, JWT, Render*]

- Architected and shipped a production-grade full-stack application with 5+ integrated productivity modules, enabling end-to-end task, habit, Kanban, calendar, and night-routine workflows with persistent user state.
- Designed and implemented JWT-secured RESTful APIs (100+ endpoints) with role-scoped data access, optimized CRUD operations, and structured MongoDB schemas to ensure data consistency and secure session handling.
- Built a responsive, state-driven frontend supporting 100% mobile and desktop compatibility, reducing interaction friction and improving task completion flow through clean UI, modular components, and smooth UX transitions.

Anomate Stream - ML-Driven Anomaly Detection for Containerized Systems - [GitHub](#)

[Tech Stack: *Python, Isolation Forest, Falco, scikit-learn, Pandas, Streamlit*]

- Designed a 5-stage modular anomaly detection pipeline for container runtime security using Falco-mimic system call logs, spanning data ingestion, preprocessing, ML inference, visualization, and deployment in a unified workflow.
- Trained an unsupervised Isolation Forest model (100 trees, 10% contamination) on encoded syscall, CPU, and memory features, achieving 94.6% accuracy, 91.2% precision, and 90.3% F1-score, and integrated results into a Streamlit dashboard for log uploads, anomaly labeling, and exportable analysis.

EXPERIENCE

- **Research Intern (Medicaps University) | Jun 2025 - Jul 2025** | Built ML classifiers for steganography detection in satellite imagery with research-to-product translation.
- **AI/ML Research Intern - Edunet Foundation (Remote) | Apr 2025 - May 2025** | Developed CNN-based forest fire detection model with PSNR evaluation and visual heatmaps.

EDUCATION

- **Medi-Caps University, Indore** | B.Tech. Computer Science and Engineering | 2022-2026 | CGPA: 8.07 / 10
- **SICA S.S. School, Indore** | Higher secondary, CBSE Board | 2022 | Academic Performance: 87.6%

SKILLS

Frontend: Next.js, React.js, Tailwind, JavaScript, HTML, CSS, UI Component Libraries, Responsive UI Design

Backend: Node.js, Express.js, REST APIs, JWT-based Authentication, Firebase

Databases & Tools: MongoDB, PostgreSQL, Redis, Git/GitHub, Postman, Docker, GitHub Actions

ACHIEVEMENTS

- **Hack'Ndore (National Hackathon)** | Top 100 teams nationwide for building and presenting a functional prototype.
- **Re-Imagine (National Frontend Hackathon)** | Top 800 teams nationwide for UI implementation.