Avinash Rajure

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PROFESSIONAL SUMMARY

Highly motivated software engineer with strong foundations in algorithms, data structures, and core computer science concepts. Proficient in Python and JavaScript; experienced in building secure, scalable, and real-time web applications using the MERN stack, Docker, and AWS. Specialized in backend development (Node.js, Express) and familiar with modern frontend frameworks (React, Next.js). Proven problem-solver with leadership experience delivering production systems and mentoring peers. Seeking to contribute to impactful web and cloud solutions in a collaborative environment.

EDUCATION

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad   *2022 – 2026*
Bachelor of Technology in Artificial Intelligence and Machine Learning
Currently in 3rd Year — Expected Graduation: 2026

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, Java, Python, C
- **Backend:** Node.js, Express.js, RESTful APIs, GraphQL, Socket.IO, WebRTC
- **Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap
- **Cloud & DevOps:** AWS (EC2, S3, CloudFront, SNS), Docker, Git, Linux
- **Databases:** MongoDB, MySQL, database design, query optimization
- **Frameworks & Tools:** MERN (MongoDB, Express, React, Node), Postman, GitHub, Zustand, Notion SDK, Ollama

PROFESSIONAL EXPERIENCE

Software Development Intern   *Jul 2024 – Present*
Will2Care (IGENWILL Pvt. Ltd.)   *Hyderabad*

- Develop and optimize backend services using Node.js and Express for healthcare applications.
- Create responsive frontend components with React and modern JavaScript patterns.
- Deploy and maintain applications on AWS EC2; manage file storage with S3.
- Work within Agile teams to deliver scalable features and improve system reliability.
- Apply security best practices and performance tuning for production environments.

Technical Lead, Free Software Wing   *Nov 2023 – Mar 2025*
Gokaraju Rangaraju Institute of Engineering and Technology (GRIET)   *Hyderabad*

- Led a core technical team (10–15 students) to design, build, and operate the club's MERN web platform serving 1,000+ registrations and real-time event features.
- Owned backend architecture, CI/CD pipelines, Docker-based deployments, and AWS hosting to ensure high availability during national events.
- Mentored 50+ students on full-stack development, Git workflows, code reviews, and open-source contribution.
- Managed live operations for large events (24-hour hackathons, FOSSFest), coordinating alerts, scaling, and incident response.

PROJECTS

ChatUp — Real-Time Chat Application (Live: chat-app.avinashrajure.live)
- Scalable real-time chat built with MERN; Node.js backend and React frontend.

- Enabled sub-second messaging using Socket.IO and WebSocket connections.
- Deployed on AWS EC2 with MongoDB, S3 for file storage, and CloudFront CDN.
- Added JWT authentication, real-time notifications, and responsive UI (Tailwind CSS).
- Containerized with Docker and integrated an automated deployment pipeline.

WhatsApp–Notion Bridge — AI Integration Platform (GitHub: Link)
- Integrated WhatsApp messaging with Notion via a secure Express backend and Notion API.
- Used a local LLM (Ollama) for message parsing and structured data extraction.

VIVITSU Hackathon Platform (GitHub: Link)
- Event management system supporting 1,000+ registrations and 800+ concurrent users.
- RESTful API backend (Node/Express) with MongoDB persistence and Socket.IO real-time updates.
- Implemented authentication, email automation, and S3-based media uploads.

Real-Time Network Intrusion Detection System (GitHub: Link)
- Security monitoring platform with Node.js backend and React dashboard.
- Integrated XGBoost models for real-time threat detection and alerting.
- Exposed REST APIs and WebSocket streams for live telemetry and visualization.

CERTIFICATIONS

- **AWS Academy Cloud Foundations** , AWS Academy Graduate (Dec 2023)
- **AWS Academy Machine Learning Foundations** , AWS Academy Graduate (Jan 2024)
- **AWS AI-ML Virtual Internship** , Amazon Web Services (Jan 2024)
- **AI-ML Virtual Internship** , Google for Developers (Jul 2024)
- **Virtual Internship — AI & ML** , AWS (Jan 2024)

LEADERSHIP & ACTIVITIES

Workshop Organizer   *Mar 2024*
CyberBloom Cybersecurity Workshop   *GRIET*

- Organized and delivered a hands-on cybersecurity workshop for 150+ students.
- Prepared lab material, coordinated instructors, and managed participant feedback.

ACHIEVEMENTS

- Led technical teams to deliver multiple production-grade web applications and large-scale events.
- Active open-source contributor with multiple public repositories and community involvement.
- Demonstrated expertise in cloud deployment and site reliability for event-scale traffic.