

# KAMAL KALYAN DODLOGI

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## EDUCATION

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### SREE VENKATESWARA COLLEGE OF ENGINEERING

*Bachelor of Technology*

Electronics and Communication Engineering

Cumulative GPA: 8.13/10

Nellore

May 2023

## EXPERIENCE

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### TATA CONSULTANCY SERVICES (TCS) - Software Security Analyst

May 2024 – Present

- Static Application Security Testing (SAST): Conducted code analysis for codebases up to 2,00,000 lines, identified and addressed over 50 vulnerabilities early in the development cycle.
- Dynamic Application Security Testing (DAST): Performed live testing on 10+ applications, uncovered and resolved 30+ vulnerabilities in real-time environments.
- False Positive Analysis: Investigated tool-reported vulnerabilities lacking effective remediation, collaborated with developers to verify proper fixes, and guided them in resolving issues – enhancing accuracy and remediation effectiveness by 25%.
- Access Control Management: Managed access provisioning for 10+ projects across varied roles; ensured secure, project- and role-based tool access through strict validation.
- Client Reporting: Delivered 15+ detailed reports with actionable insights and recommendations, contributing to a 10% reduction in security issues within months.

**Role Focus:** Enhancing software security for aerospace technologies by safeguarding applications against evolving cybersecurity threats.

## PROJECTS

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### SKILLVERSE: SKILL BARTERING PLATFORM (MERN STACK): [Link](#)

May 2025

- Developed a real-time platform enabling peer-to-peer skill exchange, reducing users' dependence on paid platforms by an estimated 80% for users.
- Implemented secure authentication using JWT & bcrypt, reducing unauthorized access attempts by 100% during testing, and integrated real-time notifications via Socket.IO.
- Built and optimized a skill-matching algorithm that achieved 90% accuracy in connecting users with relevant mentors based on skill tags and preferences.
- Integrated features like profile management, gamified leaderboards and engagement rewards, resulting in an increase in daily active users from 5 to 10.

### CODEGUARDIAN: WEB APPLICATION VULNERABILITY SCANNER (MERN STACK): [Link](#)

Feb 2025

- Built a web application security scanner using React.js, Node.js, Express.js and MongoDB, successfully tested on 10+ demo websites.
- Implemented vulnerability detection for OWASP Top 10 Security risks and provided detailed scan reports.
- Designed a REST API to handle authentication, scanning and reporting using JWT.

### DIABETES DISEASE PREDICTION (MACHINE LEARNING, PYTHON): [Link](#)

Mar 2023

- Developed a machine learning model to predict diabetes disease using five supervised ML algorithms.
- Attained stable prediction accuracy of over 70% with the engineered model.
- Utilized the K-Nearest Neighbors (KNN) classifier, achieving the highest accuracy of 76%.

## TECHNICAL SKILLS & CERTIFICATIONS

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- **Languages:** Java, Python, JavaScript
- **Frameworks:** Node.js, React.js, Express.js, Bootstrap
- **Database:** MongoDB, MySQL

- **Tools:** GitHub, Figma
- **Core Concepts:** Data Structures & Algorithms, Web Security Testing
- **Certification:** Microsoft Certified: [Azure AI Engineer Associate AI-102](#)

## PROFESSIONAL ENGAGEMENTS

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### LUMEN TECHNOLOGIES

*Hackathon Participant*

*Feb 2023*

- Collaborated with 5 teammates to design and construct an Event Management System based on hackathon theme: scalable event management.
- Applied front-end techniques such as responsive layouts, ensuring a responsive and user-friendly experience for event organizers and attendees.

### OASIS INFOBYTE

*Front-end Web Development Intern*

*Sep 2022 – Nov 2022*

- Completed a 4-week virtual internship focused on front-end development, built 3 projects using HTML, CSS and JavaScript.
- Created front-end web applications using HTML, CSS, and JavaScript, highlighting proficiency in these technologies.