EMMADISETTY KOWSHIK

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Portfolio: https://portfolio-kowshik.netlify.app/

Career Objective

Aspiring Software Engineer with a strong foundation in Java, Python, microservices, and scalable system design. Passionate about data processing, distributed systems, and enterprise software development. Seeking an opportunity to design, develop, and optimize APIs, backend services, and cloud-based applications while leveraging my expertise in object-oriented programming, data structures, and algorithmic problem-solving.

Education

- **KONERU LAKSHMAIAH UNIVERSITY** — ANDHRA PRADESH, India
  Bachelor of Technology - Computer Science and Engineering: ***CGPA: 9.7*** — *July 2021 - June 2025*
- **NARAYANA JUNIOR COLLEGE** — ANDHRA PRADESH, India
  MPC-12th Standard (BIEAP) ***PERCENTAGE: 90*** — *March 2019 - March 2021*
- **NARAYANA EM HIGH SCHOOL** — ANDHRA PRADESH, India
  10th Standard (BSEAP) ***PERCENTAGE: 90*** — *March 2018 - March 2019*

Skills

- **Technical Skills**: Java (Object-Oriented Design), Python, HTML, Data Structures and Algorithms, Microservices, JWT, System Design, and RESTful APIs.
- **Frameworks/Technologies**: HTML and CSS, React.js, Flask, Node.js, Django, Metasploit, Networking, Selenium.
- **Tools/Cloud**: AWS (Certified - EC2, S3), Docker, Git, VS Code, PyCharm, Eclipse, Postman, Maven.
- **Operating Systems**: Linux, Windows
- **Data Management:** SQL (MySQL), NoSQL (MongoDB, Firestore)
- **Security & Identity Management:** IAM (Identity & Access Management), RBAC (Role-Based Access Control), SDLC
- **Soft Skills**: Analytical Thinking, Problem Solving,Ownership, Collaboration, Adaptability

Experience/Internship

- **Arista Networks – Cloud & Network Engineering Training**: July 2024

  This training provided in-depth knowledge of cloud networking, software-defined networking (SDN), and multi-cloud architectures, with hands-on exposure to enterprise-grade networking solutions.

  Key Highlights:

  - Gained expertise in Arista EOS, network automation, and cloud networking concepts.
  - Learned IP addressing, subnetting, and routing protocols (OSPF, BGP) for network communication.
  - Explored zero-trust security models, network telemetry, and monitoring for cloud environments.
  - Understood MLAG, VARP, VXLAN, and EVPN for scalable and resilient network architectures.

- **Juniper Networking Virtual Internship**: May 2023 - July 2023

  The Juniper Networking Virtual Internship (Cohort 10) was conducted under the collaboration of AICTE and Edu skills, and aimed at providing participants with industry-relevant skills in the networking domain. The internship focused on equipping learners with both theoretical and practical knowledge of Juniper Networks technologies, with an emphasis on Junos OS and real-world applications.

  Key Highlights:

  - Developed expertise in configuring and managing networks using Junos OS.
  - Implemented routing protocols like OSPF, BGP, and static routing.
  - Designed secure network architectures with VLANs and spanning tree protocols.
  - Enhanced troubleshooting capabilities for network performance optimization.

  Tools and Technologies: Junos OS, Virtual Labs (vLabs), Packet Tracer, and CLI for network configurations.

Projects

- **Personal Resume Generator (React-based development):** https://kowshik-resume-generator.vercel.app/
  A React. Js-powered web application designed for real-time resume creation and previewing. Users can dynamically input their details, see instant updates, and download their resume as a PDF for offline use.
  Key Features:
  - Built with React.js for an interactive and smooth UI
  - Uses React-PDF to generate resumes dynamically

- **Image Forensics and Steganography (Flask-Based Development):** https://steganovault.netlify.app/

A Flask-based web app designed for image metadata analysis and steganography-based encryption, allowing users to extract image properties, verify authenticity, and securely embed hidden messages within images.

- **Academic Project Management System (Java Full Stack Development - Spring Boot & Hibernate):**
  Developed a full-stack web application for managing academic projects, enabling seamless mentor-student collaboration, project tracking, and feedback integration. The system ensures structured project workflows with role-based access control.
  - **Artist:** Can view assigned projects, submit progress updates, and receive mentor feedback.
  - **Mentor:** Can assign grades, provide feedback, and oversee multiple student projects.
  - **Admin:** Has complete control over user management, project approvals, and system maintenance.
- **Browser Autofill Security Risk Demonstration**: https://browser-phishing.netlify.app/

  This project highlights a critical security flaw in browser autofill mechanisms. Hidden form fields can silently capture sensitive user data without their consent. The autofill feature, designed for convenience, can be manipulated by malicious websites to collect sensitive user data without their knowledge.

CERTIFICATIONS

- **AWS Certified Cloud Practitioner**: LINK
- **Google Cloud Associate Engineer:** LINK
- **Red Hat Certified Enterprise Application Developer**: LINK
- **AWS Certified Solutions Architect-Associate**: LINK
- **NPTEL: Certificate on Demystifying Networking**: LINK
- **NPTEL: Certificate on Ethical Hacking**: LINK
- **HACKER RANK: Certified SQL Basic**: LINK

CODING PROFILES

- **LEETCODE**: https://leetcode.com/u/Kowshikemmadisetty/
- **CODE CHEF**: https://www.codechef.com/users/klu_2100031921
- **CODE FORCES**: https://codeforces.com/profile/Kowshik.Emmadisetty
- **HACKER RANK**: https://www.hackerrank.com/profile/2100031921cseh

EXTRA-CURRICULAR ACTIVITIES

- Conducted cybersecurity workshops for junior students, covering network security, data protection, and ethical hacking.
- Pencil Arts, Micro Arts, and Content creation on Instagram.

ACHIEVEMENTS

- **Miracle-World Record**, Indian National Anthem Carved on a Turdal of size 5mm. 2018
- Participated in **Codekaze 2023** and ranked 2106 out of 100K+ participants. 2023

POSITION OF RESPONSIBILITY

- **Technical lead**, White-Hat Hackers Club, KL University Mar. 2023 - Sep. 2024