MUNAVVAR P K

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Professional Summary

Software Developer building scalable full-stack web applications using the MERN stack. Developed real-time chat apps and AI/ML models delivering measurable performance and efficiency. Proficient in Java, Python, C, SQL with a solid foundation in DSA and OS, creating clean, maintainable, and high-performance solutions.

Technical Skills

Programming Languages: Java, Python, C, JavaScript
Web Development: HTML, CSS, React.js, Node.js, Express.js, REST API
Databases: MongoDB, SQL
Tools & Frameworks: Git, GitHub, Postman, VS Code, Linux, Redux, Cloudinary
Core Concepts: DSA, Operating Systems, DBMS, SDLC, Software Testing

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Education

B.Tech, Computer Science & Engineering
Thangal Kunju Musaliar College of Engineering, Kollam, Kerala | Nov 2021 - May 2025 | CGPA: 7.90

Internship

Cyber Security Intern – SenseLearner Technologies Pvt Ltd | Sep 2023 - Oct 2023

- Conducted comprehensive network scanning and vulnerability assessments using Nmap, Metasploit, and Wireshark, identifying critical security gaps.
- Researched emerging cyber threats and zero-day exploits, publishing actionable findings on Medium to enhance organizational knowledge.
- Strengthened analytical, problem-solving, and documentation skills, transferable to software development and full-stack project implementation.

Projects

ChitChatty - Full-Stack Real-Time Chat Application | MERN Stack, Socket.io, Redux, Cloudinary

- Engineered a scalable full-stack real-time chat application using MERN Stack, implementing bidirectional communication with Socket.io for instant messaging and typing indicators.
- Architected predictable state management with Redux and managed scalable image storage using Cloudinary.
- Developed and validated all backend endpoints with Node.js + Express, ensuring functionality via Postman testing.

SNN-Based Social Media Threat Detection | Python, Spiking Neural Networks (SNN), NLP

- Developed an energy-efficient SNN model using LIF neurons for cyber threat detection from social media data.
- Engineered multi-modal feature fusion combining text, structural, and URL-based data for robust threat detection.
- Validated model performance, achieving 95% test accuracy and a Macro F1-score of 90%, optimized for low-power, real-time detection on constrained devices.

Dr. Green – Cross-Platform Plant Disease Detection | Flutter, CNN, Image Analysis

- Developed a cross-platform mobile application using Flutter for plant disease detection and prevention.
- Trained and integrated a CNN model with Adam optimizer to analyze user-uploaded images, achieving about 92% predictive accuracy.
- Delivered automated guidance on preventive measures and disease management strategies.

Certifications

- NPTEL: Data Structures and Algorithms using Python view certificate
- Udemy: The Complete Python Programmer: From Scratch to Applications view certificate