MUNAVVAR P K

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SUMMARY

Software Engineer (Fresher) with strong skills in Java, Python, C, and SQL. Experienced in projects on spiking neural networks and Flutter-based applications. Proficient in full-stack development and database management with a solid foundation in DSA and OS.

EDUCATION

B.Tech CSE | Thangal Kunju Musaliar College of Engineering, Kollam | 11/2021 – 05/2025 | CGPA : 7.90
12th | GHSS Othukkungal, Malappuram | 03/2020 | 92.5 %

TECHNICAL SKILLS

Programming Languages: Java, Python, C, JavaScript
Web Technologies: HTML, CSS, React.js, Node.js, Express.js
Databases: SQL, MongoDB
Frameworks & Tools: VS Code, Linux, MS Excel
Core Concepts: Data Structures & Algorithms, Operating Systems, DBMS

INTERNSHIP

SENSELEARNER TECHNOLOGIES PVT LTD | Cyber Security Intern | 09/2023 – 10/2023

- Utilized industry-standard tools like Nmap, Metasploit, and Wireshark to perform network scanning and vulnerability assessments.
- Conducted in-depth research on emerging exploitation techniques, mitigation strategies, and zero-day attacks, and published research findings on Medium.

PROJECTS

Chatty - Real Time Chat Application | 07/2025 – 08/2025

- Developed a full-stack, real-time chat application using the MERN stack.
- Engineered real-time bidirectional communication using Socket.io
- Designed and managed a NoSQL database with MongoDB to store user profiles, chat history, and group information.

Cyberattack Detection in Social Media | 08/2024 – 03/2025

- Developed a novel energy-efficient spiking neural network model to detect cyber threats from tweets, utilizing Natural Language Processing (NLP) and multimodal features.
- Preprocessed tweets with structural, textual, and URL-based features, trained using surrogate gradient descent and LIF neurons
- Achieved 95% test accuracy and high energy efficiency compared to CNNs, validating real-time detection on resource-constrained devices

Dr. Green - Plant Disease Detection Application | 03/2024 – 05/2024

- Developed a cross-platform mobile application using Flutter for detecting plant diseases via image analysis
- Trained a convolutional neural network on the PlantVillage dataset, achieving approximately 92% accuracy.

CERTIFICATIONS

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