



Vignesh Yogesh Durgakeri

BTech in Computer Communication

Motivated software engineer with expertise in full-stack development, network security and AI/ML . Proven ability to enhance system performance, streamline processes, and deliver high-quality software solutions. Passionate about solving complex technical challenges and continuously expanding knowledge in the ever-evolving tech landscape.

SKILLS:

- Languages: C++, Python, C, Shell Scripting, Bash
- Frontend: HTML, CSS, JavaScript, Next.js, React Native, Android Studio
- Backend: Node.js, Django, Postman, Git
- Networking: Wireshark, SolarWinds, VMware, Firewall, CISCO
- Security: Kerberos, FL-ML-DL, SIEM, Kali Linux , VM-PT, TensorFlow, NumPy, Pandas
- Database: MongoDB, MySQL, SQLite, Firebase
- Soft Skills: Problem-Solving, Adaptability, Time Management, Communication, Collaboration

EXPERIENCE:

RESEARCH WORK | Research Assistant

- Developed and Implemented Moving Target Defense (MTD) strategy leveraging federated learning with differential privacy to enhance IoT security using the IoT23 and DAPT2020 datasets.
- Demonstrated expertise in securing sensitive data while achieving robust anomaly detection with high performance metrics.
- Mitigating cyber security risks by dynamically alternating system configs.

Exelon Circuits | Full Stack App Developer

- Constructed a mobile application using React Native and ExpoGo ,improving user experience and application functionality.
- Worked closely with 2 product managers, providing critical feedback on proposed features from technical perspective.
- Developed comprehensive test plans, ensuring functionality and stability of mobile apps before deployment.

ACADEMIC PROJECTS:

IMDb Movie Reviews| Sentiment Analysis

- Successfully implemented and benchmarked ML and NN models for sentiment analysis on a 50k review IMDb dataset.
- Developed and optimized data preprocessing pipelines via TF-IDF.
- Achieved up to 88.66% accuracy with CNNs.

8-Queens | AI Project

- Implemented Hill Climbing Algorithm to solve the classic 8-Queens combinatorial puzzle.
- Leveraged AI concepts such as heuristic search strategies and backtracking.

Mobile Application| Women Safety App

- Executed the complete software development lifecycle.
- Key features like SOS, real time location tracking etc. were implemented.

Computer Vision| Identification of Indian sign Language

- Implemented using the YOLOv5 algorithm on RaspberryPi platform.
- Achieved precision of 96.06% , recall of 96.59% and F1-score of 96.32%
- Carefully complied dataset of 1780 images.

CONTACT



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EDUCATION

Manipal Institute of Technology

(2021-2024)

Computers and Communication

Dr TMA Pai Polytechnic

(2018-2021)

Electronics and Communication

Madhava Kripa School

(2013-2018) CBSE

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms

Object Oriented Programming

Software Engineering

Database Systems

Cyber Security

Operating Systems

CERTIFICATIONS

SPECIALIZATION

- 1.Google Cybersecurity
- 2.Google Data Analytics
- 3.Google Project Management
- 4.Introduction to Quantum Information

INTERESTS:

- Reading
- Sports
- Astrology
- Traveling
- Spirituality