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YUGESH PADMANABAN V

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Chennai, India 

Student Intern

SUMMARY

Aspiring undergraduate student pursuing B.Tech. in Computer Science and Engineering (Cybersecurity and IoT), with a strong foundation in research and project development. Experienced in designing innovative IoT solutions with a passion for software development, leveraging machine learning and AI for real-time data analytics and predictive modeling. Demonstrated leadership in collaborative team projects, delivering impactful results in fields like healthcare technology and data security. Passionate about solving complex challenges and eager to contribute to cutting-edge advancements in AI, cybersecurity, and IoT.

EDUCATION

New Prince Shri Bhavani Senior Secondary School (CBSE)

2015- 2022

Sri Ramachandra Institute of Higher Education and Research

B.Tech Computer Science Engineering
[Cybersecurity & IoT] - **CGPA: 8.8**
2022 - 2026

SKILLS

- R Programming
- Web Development
- CyberSecurity
- Javascript
- Python, C
- Android Development
- Visualization
- SQL

PERSONAL SKILLS

- Exceptional communication and Leadership skills
- Ability to work independently and as part of a team
- Detail-oriented and able to handle multiple tasks simultaneously

CERTIFICATIONS

- Search Engine Optimization with Squarespace on Coursera

INTERNSHIP EXPERIENCE

XYMA Analytics PVT Ltd. 19th Aug - 22nd Oct, 2024

ANALYSIS OF AUGMENTED REALITY AND IOT INTEGRATION FOR REAL-TIME SENSOR DATA VISUALIZATION

- Developed POTLINE, an Unity-based AR mobile App enabling real-time, interactive 3D sensor visualization for IoT devices with 108 dynamic sensors, providing enhanced user engagement through color-coded temperature changes, live data tracking, and a detailed Report Page with bar graph visualizations.
- Implemented secure login with API integration and user validation, alongside additional features like AR model screenshot capture, seamlessly bridging IoT data monitoring and interactive AR experiences for an immersive user interface.

Qwings at IITM 19 Feb - April 2024

ENCRYPTECT: ADVANCED CRYPTOGRAPHIC PROTOCOLS FOR SECURE FILE ENCRYPTION AND DECRYPTION

- Created a secure web application with an intuitive interface for file uploads, allowing users to seamlessly perform encryption or decryption tasks.
- Implemented advanced security measures to protect data throughout the process, with features for securely sharing encrypted or decrypted files and real-time notifications upon task completion.

Qwings at IITM May - July 2023

IoT Developer

- FingerVault: IoT Based Door Lock system using FingerPrint sensor

Igenuine Soft Solutions May - July 2023

FarmFresh - An E-commerce Web Application

- This e-commerce website is dedicated to providing convenient access to fresh, home-grown vegetables, ensuring high-quality produce for all customers.
- Connecting local growers with a broader market, we promote sustainable practices and support community agriculture.

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PROJECT EXPERIENCE

- **SmartTrack: IoT-Powered Railway Accident Avoidance System** with Dynamic Hazard Alerts and Tracking
- **SpeechGen: ML-Powered Speech Therapy Application** for Children with Speech Enhancement and Progress Tracking
- **PiScan: Raspberry Pi-Powered Network Surveillance and Port Vulnerability Scanner** for Real-Time IP Monitoring and Threat Detection on Local Networks
- **ThermoGuard: AR Mobile App** for Real-Time Temperature Monitoring and Predictive Maintenance of Critical Machines
- **EmpowHER: A Technology-Driven Mobile App Empowering Women** through Intelligent Health Insights, Employment Tools, and Security Features
- **ServiceLink: End-to-End Network Configuration and Service Deployment** for HTTP, DNS, DHCP, and Email in Local Networks
- **UnTuned: A JavaScript-Powered Music Application Delivering Interactive Playback Experience** Through a Modern Web Interface
- **I4U: A Progressive Dating App Backend System Designed to Foster Meaningful Connections** Based on Emotional Intelligence, Compatibility and Shared Interests
- **ProdSight : Data-Driven Product Analysis System** for Market Trend Monitoring and Competitive Strategy Insights.
- **AgriSafe: A Web Application Supporting Indian Farmers with Rented Crop Depositories** to Ensure Fair Market Pricing and Reduce Post-Harvest Losses.
- **BookTrackR: R-Powered Book Data Analysis and Visualization Engine** for Real-Time Trend Mapping, Genre Popularity Insights, and Reader Preference Profiling
- **SharkSight: Data Visualization Approach Using Tableau** to Analyze Funding Patterns and Entrepreneurial Success Factors

DEVELOPMENT ENVIRONMENT AND TECHNOLOGY STACK

- UNITY HUB
- ANDROID STUDIO
- AUGMENTED REALITY
- ARDUINO IDE
- PACKET TRACER
- TABLEAU

RESEARCH WORK

- **Security and Privacy in IoT-Integrated Wireless Networks: A Systematic Literature Review from 5G to 6G**
- **Framework for Remote Environmental Sensing in Augmented Reality: Real-time Temperature Data Integration with AR Foundation and IoT**
- **Stroke & Neurological Deficit Assessment System**
- **Smart Dental Implants: IoT-Enabled Force Sensing Resistor Sensors for Real-Time Monitoring and Early Detection of Implant Failure**