

Athul Raj S

Full Stack Developer | Cybersecurity Research & Network Security

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Alappuzha, Kerala, India

PROFILE SUMMARY

Full Stack Developer with hands-on experience in building and deploying real-world web applications using JavaScript and Python. Skilled in backend development, database management, and secure role-based systems. Experienced in working with Node.js, React, and MySQL, along with practical exposure to server management and performance optimization. Passionate about developing scalable solutions and continuously improving in software development and cybersecurity.

SKILLS

Programming Languages	Python, JavaScript, Lua
Frontend Development	React.js, HTML, CSS, Tailwind CSS, Bootstrap
Backend Development	Node.js, Express.js
Databases	MySQL, PostgreSQL, MongoDB
Core Concepts	REST APIs, Authentication & Authorization, CRUD Operations, MVC Architecture, Database Design, Debugging
DevOps & Deployment	Linux Server Management, Docker, Apache
SEO & Web Optimization	On-Page SEO, Technical SEO, Website Speed Optimization, Basic Keyword Research
Analytics & Tools	Google Search Console (Basic), Google Analytics (Basic), Git, GitHub, VS Code, Figma, Canva

WORK EXPERIENCE

FiveM Developer – Unity Verse LLC	2023 – 2024
- Built and maintained custom FiveM scripts and server resources. - Worked with ESX, QBCore, and Qbox frameworks. - Optimized Lua scripts to improve performance and stability. - Managed MySQL databases and server-side logic. - Debugged and optimized server performance.	
Lead Web Developer – Vertex School of Science	2024 (9 Months)
- Designed and launched the official institutional website. - Integrated backend systems using PHP and MySQL. - Managed student data, staff records, and authentication. - Ensured security, performance, and scalability.	
Lead Web Developer – Gokul Nagar Residents Association	2024 (2 Months)
Built a community-focused residential management system.	

- Implemented item and expense tracking with detailed cost management.
- Developed secure modules to store user data and maintain payment history.
- Ensured responsive UI, secure backend operations, and data integrity.

Lead Web Developer – Epoch Tales (London, UK)

2026 (Current)

- Led the development of a modern website for a London-based film production company.
- Designed and implemented immersive user interfaces with advanced GSAP animations and smooth scrolling effects.
- Built responsive, high-performance pages with a strong focus on cinematic storytelling and user experience.
- Optimized website performance, cross-browser compatibility, and SEO while maintaining clean, scalable code.
- Collaborated on branding and visual design to create an engaging digital presence aligned with the company's identity.

PROJECTS

Zero Hack – AI-Powered Intrusion Detection System

Personal B-tech Final Year Project

- Developed an AI-assisted intrusion detection platform for real-time network security monitoring and cyber threat detection.
- Integrated Suricata IDS with intelligent alert processing to identify suspicious network activities and potential attacks.
- Implemented IoT-based monitoring using ESP32 for physical intrusion detection and environmental sensing.
- Designed a centralized dashboard for live threat visualization, security analytics, event logging, and incident management.
- Technologies: Python, Flask, Suricata IDS, ESP32, SQLite.

Night-time Safety with Adaptive Headlights Automation

IEEE ICDDDS 2025

- Designed and developed an adaptive headlight automation system to improve nighttime driving safety using Arduino, LDR, and IR sensors.
- Implemented real-time beam intensity control based on ambient light conditions and oncoming vehicle detection.
- Achieved approximately **98% detection accuracy** with a **125 ms** beam switching latency through prototype evaluation.
- Research accepted and published at the **2025 IEEE 4th International Conference on Data, Decision and Systems (ICDDDS)**.
- Technologies: Arduino UNO, Embedded C, LDR Sensor, IR Sensor, MOSFET Driver Circuit.

College Navigation System

- Developed an interactive campus navigation system to help students and visitors locate classrooms, laboratories, offices, and campus facilities.
- Designed an intuitive interface with route guidance for efficient navigation across the campus.
- Optimized the system for both desktop and mobile devices, improving accessibility and user experience.

Online Examination System

Personal B-tech Project

- Designed scalable full-stack examination platform.
- Implemented secure role-based access (Admin/Teacher/Student).
- Developed backend logic for automated evaluation and scheduling.
- Optimized database queries for performance.

PUBLICATIONS

Night-time Safety with Adaptive Headlights Automation

IEEE ICDDDS 2025

Research paper accepted and published in the **2025 IEEE 4th International Conference on Data, Decision and Systems (ICDDDS)**. See the **Projects** section above for full technical details.

EDUCATION

BE in Computer Science Aarupadai Veedu Institute of Technology , Chennai	2023– 2027
Higher Secondary (Class XII) VHSS Higher Secondary School	2021 – 2022
Secondary School (Class X) Sree Buddha Central School	2019 – 2020