

AMAL TOM AJITH

Software Engineer

Passionate Computer Science Engineering student with a keen interest in cybersecurity, software development, and emerging technologies. Skilled in Python, databases, and security fundamentals, with hands-on experience in network security research. Always eager to learn, innovate, and tackle real-world tech challenges.

+91 8921530826

work.amaltom@gmail.com

[amaltomajith](#)

[amaltomajith](#)

[amaltom.life](#)

Bengaluru



EDUCATION

2023 – 2027	BTech in Information Technology
Christ University	Focused on software development, cybersecurity, data systems, project management, and service-oriented solutions.

CERTIFICATIONS

2023–2024	Cybersecurity Professional Certification
Google	Validates skills in security operations, risk assessment, incident response, and threat mitigation.
2023–2023	HTML, CSS and JavaScript
Udemy	Demonstrates proficiency in building responsive, dynamic websites using core front-end technologies.
2024–2025	AI Fundamentals – IBM SkillsBuild
Cisco	A certification in artificial intelligence that validates knowledge of machine learning, data processing, AI models, neural networks, and their real-world applications.
2024–2025	Introduction to MongoDB
MongoDB University	A certification that validates knowledge of NoSQL databases, MongoDB architecture, CRUD operations, indexing, aggregation, and basic database administration.
2024–2025	Programming Essentials in Python
Cisco	Gained proficiency in Python fundamentals, including data structures, control flow, functions, and OOP.
2024–2025	Learn Fundamentals of Operating System
Scaler	Earned a certification in Operating Systems from Scaler, covering process management, memory management, file systems, concurrency, and OS security fundamentals.

TECHNICAL SKILLS

- Java
- Python
- C
- C++
- Git and Github
- Linux
- MySQL
- MongoDB
- Cybersecurity (Security operations, risk assessment, incident response, threat mitigation)
- Data Structures & Algorithms (DSA)
- Database Management Systems (DBMS)
- Computer Networks
- Game Development (Unreal, Unity, C#)
- Debugging

PROJECTS

2024-2025 Unity	First Person Science Lab Project Designed and developed an immersive 3D science lab experience using Unity, featuring a third-person camera, realistic character animations (idle, walk, run), seamless scene transitions, interactive interior exploration, and advanced light baking techniques for enhanced visual quality and realism.
2024-2025 HTML, CSS, JavaScript, Python and MongoDB	Military Management System Designed and developed a Military Management System using MongoDB, Flask, and a modern frontend. The system efficiently handles personnel records, resource allocation, mission planning, and security protocols.
2024-2025 Java	Routine Decider - Java Project The Routine Decider is a Java Swing-based GUI application for organizing daily tasks efficiently. Users can select predefined or custom tasks, assign priorities, and generate an optimized schedule. It features Google Drive integration, an email feedback system, and a calorie intake tracker, enhancing time management and productivity.
2024-2025 Python	SQL Injection Login Tester This Python tool automates the detection of SQL injection vulnerabilities in web login forms. It scrapes the login page, extracts input fields, and submits a crafted SQL payload (' OR '1'='1') to test for unauthorized access. If the response indicates a successful login, it flags the site as potentially vulnerable.

PUBLICATIONS

2023 International Journal of Research Publication and Reviews	AI-ML for Trending Biosensing Application This research explores AI and ML in biosensing, focusing on IOMT, smart sensors, and wearable healthcare. It highlights AI's role in clinical diagnostics, cardiac monitoring, diabetes management, cancer detection, and robotic-assisted surgeries, emphasizing improved detection accuracy and cloud-integrated healthcare solutions.
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SOFT SKILLS

- Problem-Solving
- Presentations
- Communication
- Teamwork & Collaboration
- Adaptability
- Time Management
- Leadership
- Creativity
- Work Ethic

LANGUAGE

English

Hindi

Malayalam

Kannada

Tamil