

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.

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Bengaluru

EDUCATION

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

CERTIFICATIONS

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| 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

- Next.js
- AI Integration
- Java
- Python
- C/C++
- HTML, CSS and JavaScript
- 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

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| 2024-2025 Next.js | VoiceSQL Developed a full-stack web application that enables users to manage databases using voice or text input. Integrated AssemblyAI and Groq for speech-to-text and SQL generation. Features include dynamic table creation/editing, intelligent data analysis with visual insights, and real-time activity logs. Built using Next.js, Tailwind CSS, and Supabase; deployed on Vercel. |
| 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

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| 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