

# 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

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

## CERTIFICATIONS

2023–2024	<b>Cybersecurity Professional Certification</b>
Google	Validates skills in security operations, risk assessment, incident response, and threat mitigation.
2023–2023	<b>HTML, CSS and JavaScript</b>
Udemy	Demonstrates proficiency in building responsive, dynamic websites using core front-end technologies.
2024–2025	<b>AI Fundamentals – IBM SkillsBuild</b>
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	<b>Introduction to MongoDB</b>
MongoDB University	A certification that validates knowledge of NoSQL databases, MongoDB architecture, CRUD operations, indexing, aggregation, and basic database administration.
2024–2025	<b>Programming Essentials in Python</b>
Cisco	Gained proficiency in Python fundamentals, including data structures, control flow, functions, and OOP.
2024–2025	<b>Learn Fundamentals of Operating System</b>
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	<b>VoiceSQL</b>
Next.js	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	<b>First Person Science Lab Project</b>
Unity	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	<b>Military Management System</b>
HTML, CSS, JavaScript, Python and MongoDB	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	<b>Routine Decider - Java Project</b>
Java	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	<b>SQL Injection Login Tester</b>
Python	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	<b>AI-ML for Trending Biosensing Application</b>
International Journal of Research Publication and Reviews	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.

# SOFT SKILLS

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

# LANGUAGE

- English
- Hindi
- Malayalam
- Kannada
- Tamil