

Amit Ghosh

✉ amitg@svu.ac.in ☎ 7602307242 in aamitghoshoofficial 🌐 AGhoshGit 📍 Bankura, India

Passionate about full-stack development, IoT, and AI, with expertise in ASP.NET, C#, Python, and Embedded Systems. Skilled in backend engineering, cloud integration, and IoT-powered applications, including smart automation and connected systems.

Skills: C, C++, C#, Python, IoT, LoRa, ASP.NET, AI, SQL, Firebase, Machine Learning.

Experience

Swami Vivekananda University Designation : Assistant Professor	Dec 2025 - Present
ACES Infotech PVT LTD, Kolkata Designation : Robotics Co-ordinator	Nov 2025 - Dec 2025

Publications

AgriNet: An IoT-Based Multi-node System for Smart Resource Management in Agriculture J. Samadder, A. Ghosh , J.C. Das, R Sau &, D. De 10.1007/978-3-032-25446-7_34 🔗	Jul 2026
IoT-Driven Automated Hydroponic System for Climate-Independent Indoor Crop Cultivation J. Samadder, S. Roy, S. Mapa, S. Gharami, J. C. Das & A. Ghosh 10.1109/EDKCON62339.2024.10870630 🔗	Feb 2025

Projects

Academic Projects

IoT Enhanced MultiNode System for Optimal Resource Management in Agriculture C, C++,Python, ESP32, LoRa, Raspberry-Pi Developed a multinode system to monitor real-time environmental parameters and enhance data-driven decision making to enable resource management in agriculture.	2025 🔗
Online Classroom Management System ASP.NET, C#, CSS, HTML, JS, Bootstrap Developed a virtual classroom platform with essential tools for seamless online education. Gained experience in full-stack development and team collaboration.	2022 🔗
Online Book Store (Second-Hand Books) ASP.NET, C#, CSS, HTML, JS, Bootstrap Built a platform for users to buy and sell second-hand books, promoting book sharing.	2019 🔗
Online Prescription Management ASP.NET, C#, CSS, HTML, JS, Bootstrap Designed a system for digital prescription storage to improve patient healthcare.	2018 🔗

Personal Projects

Smart UPS Management System C, C++, Arduino IDE, ESP-Web Server, ESP32 Automated Battery Management System using IoT to Uninterrupted power supply for network appliances.	2024 🔗
--	------------------------

Smart Water Management System | C, C++, Arduino IDE, Blynk, ESP8266

2023 [🔗](#)

Automated water tank monitoring using IoT to optimize water usage. Implemented Over-The-Air (OTA) firmware updates for remote maintenance.

Smart Room with Fingerprint Door Lock | C, C++, Arduino IDE, Blynk, ESP8266

2022 [🔗](#)

Created a home automation system with a fingerprint-secured smart lock.

Education

Maulana Abul Kalam Azad University of Technology, West Bengal *M.Tech in IT(IoT)*

2023 - 2025

Kalyani Government Engineering College
Master of Computer Applications

2019 - 2022

Dr. B. C. Roy Engineering College, Durgapur
Bachelor of Computer Applications

2016 - 2019

Bankura Municipal High School
Higher Secondary

2016

Bankura Zilla School
Secondary

2014

CERTIFICATIONS (ISSUING AUTHORITY GLOBSYN & ORACLE)

- HTML, CSS, and JavaScript for Web Developers
- Application Development in ASP.NET using MVC
- Programming for Everybody (Getting Started with Mysql & Php)
- Fundamentals of Network Communication.

Technologies

- **Languages:** Python , C++, C, C#, SQL, JavaScript, Assembly.
- **Frameworks:** .NET, Microsoft SQL Server, Interface Builder.
- **Tools & Platforms:** Arduino IDE, Visual Studio VS Code, GitHub.
- **IoT & Hardware Integration:** Raspberry Pi, Arduino, ESP32, ESP8266, Sensor Integration.