

Ashiqur Rahman, Software Engineer

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LINKS

[LinkedIn](#)

PROFILE

Software Engineer with a Postgraduate Diploma from **Trinity College Dublin** specializing in scalable infrastructure and **high-impact systems**. Experienced in developing automated data pipelines and leveraging **AWS** to build fault-tolerant, low-latency architectures. Proven track record in **system monitoring**, technical troubleshooting, and maintaining high service availability in complex enterprise environments.

WORK AUTHORIZATION

Legally authorized to work in Ireland (Stamp 1G)

EDUCATION

Sep 2023 — Feb 2025

Postgraduate Diploma in Computer Science, Trinity College Dublin

Dublin, Ireland

Grade: 2.1

Coursework: Privacy and Security, Artificial Intelligence, Software Engineering and Distributed systems.

Jul 2019 — May 2023

Bachelor of Technology in Electronics and Communication , SRM Institute of Technology and Science

Chennai, India

Grade: 1.1

Coursework: Machine Learning, Control Systems, Computer Communication Networks, Wireless Communications

PROFESSIONAL EXPERIENCE

2024 — 2025

Application Support Engineer, Millennia Global Soft Pvt Ltd

Remote (Dublin)

- Acted as a **Designated Responsible Individual (DRI)** for monitoring enterprise system health, proactively managing service degradation and downtime for high-impact ERP infrastructure.
- Utilized **Python and SQL** to build **observability tools** that diagnosed API and data-synchronization failures, achieving a **90% resolution rate** for critical service interruptions.
- Automated high-scale workflows by integrating hardware telemetry with cloud-based ERP systems, improving data precision by **40%** and ensuring system reliability.
- Authored **15+ technical specifications and SOPs** in **Confluence** to drive consistency in monitoring and operations at scale.

PROJECTS

Mar 2025

Warehouse Automation Rollout for Larson & Toubro Shipyard Ltd India)

Dublin

Millennia global Soft Private Limited

Aim: Facilitated the large-scale deployment of automated logistics systems across **10+ shipyard facilities**, streamlining complex data flows and reducing manual processing time by **30%**. Executed **SQL-driven validation** that improved discrepancy detection by **40%**, ensuring 100% data integrity across **50,000+ enterprise asset records**. Managed the technical support lifecycle for software-defined workflows, performing incident triage to maintain critical operational uptime in a distributed environment.

2024

Disaster Response Management System – Trinity College Dublin

Dublin

Aim: Engineered a high-availability Django and MySQL platform for real-time disaster response orchestration, supporting telemetry from **5+ external APIs**. Implemented automated monitoring scripts with **failover logic** for API integrations, ensuring system resilience and high observability during stress testing. Optimized database performance via indexing to achieve a **20% reduction in dashboard load times**, maintaining the low-latency response required for critical network services.

Aim: Engineered a peer-to-peer (P2P) protocol using **Named Data Networking (NDN)** for content-based addressing, achieving a **25% reduction in network latency**. Implemented TCP for reliable transmission and UDP for lightweight routing updates between virtual nodes, demonstrating deep competency in core **Software Defined Networking (SDN)** principles. Enhanced system security by 30% using **ECC/AES encryption** and optimized traffic via distance vector routing algorithms to prevent network congestion in distributed environments.

SKILLS	Python (automation scripts, data handling) Java (Object Oriented Programming) SQL (queries, validation) AWS (Lambda, DynamoDB) Git (Version Control) Confluence Odoo ERP (workflow customization, asset tracking) cloud-based monitoring (AWS IoT Core) REST APIs	Microsoft 365 (Onedrive, Sharepoint, Teams, Powerpoint, Word) SDN Concepts Telemetry Communication (English Proficient, verbal & written) Technical Documentation (Confluence, SharePoint), Load Balancers TCP/IP NDN SRE Principles
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CERTIFICATIONS

2025	Aws Cloud Practitioner Essentials - Udemy Academy
2025	GDPR Awareness and Data Protection Basics - LinkedIn Learning
2024	Microsoft Azure Fundamentals: Management & Governance - Microsoft Learning
2024	Python (Problem Solving – Gold Badge) HackerRank