

Md Mahbub Alam

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Research Interests

Network and Systems Security, Automated Vulnerability Detection, Program Analysis

Education

Syracuse University August 2023 - Present
Ph.D. in Computer/Information Science and Engineering Syracuse, NY

Bangladesh University of Engineering and Technology (BUET) Feb 2013 - Sep 2017
B.Sc. in Computer Science and Engineering *CGPA: 3.57 (out of 4.00)* Dhaka, Bangladesh

Work Experience

Syracuse University August 2023 - Present
Graduate Research Assistant Syracuse, NY
Implemented Text-to-IoT policy translator with LLM, integrated grammar parser for validation, and created input generator using Z3 Theorem Prover.

Intuitive Web Solutions LLC (BriteCore) Redwood City, CA
Senior Site Reliability Engineer (remote) March 2022 - July 2023
Enhanced application monitoring, automated system healing, resolved incidents, implemented security practices, and optimized resource allocation in batch job processing.

Senior Cloud Engineer (remote) Oct 2021 - Feb 2022
Modularized AWS infrastructure, developed a deployment portal for managing resources in 100+ AWS accounts, and automated upgrades for production database clusters.

Cloud Engineer (remote) Aug 2019 - Sep 2021
Configured a secure multi-master Elasticsearch cluster, improved CI/CD pipelines for 40+ products, and successfully migrated a legacy application to Elastic Container Service.

Field Information Solutions Ltd Dhaka, Bangladesh
Software Engineer May 2018 - Jul 2019
Developed API endpoints and refactored the existing codebase to enhance code reusability, supporting both web and mobile applications for a last-mile sales distribution application.

Reve Systems Dhaka, Bangladesh
Junior Software Engineer Oct 2017 - Apr 2018
Created a source code generator using Java and Apache Velocity template engine, ensuring consistent code structure and style, while also contributing to the development of a high-performance SMS server application using the SMPP protocol.

Awards

2nd Runner-up in Software Project Show at the **2nd International Conference on Networking Systems and Security, 2016**