

Mohammad Nafis Alam

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EDUCATION

University at Buffalo SUNY, New York , Master in Science, Computer Science **GPA: 3.42** **2023-2025**
(Operating System, Machine Learning, Database System, Deep Learning)

Vellore Institute of Technology, Vellore, India Bachelor of Technology, Computer Science **GPA: 8.76/10** **2014-2018**
(Worked as Teaching Assistant for Differential Calculus class, Served at Youth Red Cross)

Relevant Coursework: Programming Language Translator, Computer Network, Algorithm Design, Database Management , Differential Calculus , Linear Algebra, Theory of Computation

ACADEMIC PROJECTS

Deep Learning based Wireless Localization for Indoor Navigation | Python, Pytorch - **2024(In Progress)**

- Implementing neural network design for a research article(dloc).([link](https://nafisdev.github.io/dloc/)) Training model to pick the maximum probability point as the target location.(<https://nafisdev.github.io/dloc/>)

Anomaly Detection in ElectroCardiogram | Python, Tensorflow - **2023**

- Trained an autoencoder on the normal rhythms and based on deviations from reconstruction and classified the data.

WORK EXPERIENCE

Optum-UHG Chennai, India Software Engineering Lead **Mar 2023 – Aug 2023**

- Worked on DR Plan and contributed to IAC and minimized RTO

Optum-UHG Chennai, India Software Engineer **Mar 2021 – Feb 2023**

- Worked on a Medical Referral Application enabling integration with EHR, DirectMessage, Faxes.
- Created data streaming pipeline using Redis Stream .NET Client. Facilitated incremental data loading and reduced the workflow duration from 4 hours to a few minutes.
- Built a SearchEngine using Elasticsearch and .NET Client(Relevance Score Customization, Infrastructure and SDKs). Achieved efficient practitioner search with required sequence of results.
- Wrote Angular components for SPA

Optum-UHG Chennai, India Associate Software Engineer **June 2018 – Feb 2021**

- Laid out design in Azure Cloud Infrastructure(Full CI-CD using jenkins pipeline, terraform for IAC).
- Wrote enterprise plugins for Vendor Softwares. Customized Microstrategy authentication libraries to support OAuth2 and multi node architecture and hence reduced RPS.
- Built analytical Microstrategy dashboards to keep a check on referral leakage across clients. and track workflow TAT.

Advisory Board Company Chennai, India Software Intern **Jan 2018 - April 2018**

- Re-designed relationship hierarchy in SQL Database to use as Access Control List.

SKILLS AND INTERESTS

Certification: Kubernetes Certification from edureka, Data Scientist Certification course on DataQuest (https://app.dataquest.io/view_cert/Q1CMDBGLATN7Q36QSF45/)

Technical Skills: C,C++,C,C#, SQL, Java, Python; SQL;.NET; Angular, TS; Dotnet, Django ;SpringBoot.

Other Skills: SQL Server;Docker;Azure;Kubernetes;Jenkins;Terraform;Microstrategy;ELK;Redis; GraphDB;Design Patterns; SOLID Principles; Agile Methodologies;

AWARDS AND ACHIEVEMENTS

- Google CodeJam 2017 Qualifier
- IIT JEE Advanced 2014 Qualifier(AIR 10846)
- Won Inter-School Math quiz and Coding competition. Represented school in inter-school sports competitions (Archery,Football,Cricket)

LEADERSHIP EXPERIENCE

Optum-UHG Chennai, India Software Engineer

- As a member of Optum's Innovation Council, conducted sessions on Elasticsearch. (<https://nafisdev.github.io/elasticsearch/>)
- Built a Django API facade for interns to work on. Taught libraries like DRF serializer to perform CRUD operations.