

# Md Mazharul Islam

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- 5+ years of experience in Python, C#, C++, Java, JavaScript, Object Oriented Programming (OOP)
- 3+ years of Industry experience in Azure DevOps, Distributed Backend Services, Web Services, API development

## SKILLS

**Languages & Frameworks:** Python, C#, C++, Java, PySpark, .NET, Spring Boot, JavaScript, Flask, Django, Terraform

**Web & DB:** Azure Data Explorer, Cosmos DB, MS SQL Server, Oracle PL/SQL, MySQL, SQLite, REST, JSP, jQuery

**Tools & Libraries:** Azure Devops, Azure Synapse Pipeline, Azure Cloud Services, Maven, Git, Azure Cache for Redis, Azure Monitor, Azure Managed Grafana, AWS (S3, EC2), Pandas, Docker

## PROFESSIONAL EXPERIENCES

**Software Engineer**, Microsoft Corporation, Vancouver, Canada Jun 2023 – Feb 2025

- Contributed to Microsoft's company-wide Secure Future Initiative to safeguard customer data from bad actors
- Migrated 7 Identity Protection services from key & certificate-based to Managed Service Identity (MSI) based authentication
- Developed and deployed a Azure Synapse Pipeline using PySpark which validates ~144M records of IP Geo location data daily
- Contributed to artifact release using Azure DevOps build pipeline and PilotFish, ensuring scalability in service regions by managing environment configurations, region-wise deployments, scaling VMs, and resource allocation
- Contributed in building monitors for service availability and to detect any anomaly in the system using Geneva metrics
- Wrote TSG on redirecting traffic to alternate regions during incidents, followed by on-call engineers to enable faster recovery
- Guided new hires during onboarding, helped them understand service architecture and prepared them for on-call responsibilities

**Software Engineer**, Microsoft Corporation, Redmond, USA Jul 2022 – Jun 2023

- Developed and maintained features of Identity Protection Services to enable data-driven security decision-making which serves over 42.6M customers ensuring 99.99% service availability
- Created Geneva Metrics and updated monitor logic to reduce abnormal empty IP location detection time from 120 to 45 mins
- Developed Live Site Manager (LSM) jobs and deployed in Geneva Actions to expedite data uploads and runtime configuration changes, reducing issue mitigation time by ~70% (from 16 hrs to 4.5 hrs) and reducing customer impact
- Worked in a v-team to increase the service resiliency to recover from a Sev 1 incident by delivering 4 repair items

**Associate Implementation Consultant**, Edifecs, Bellevue, USA May 2021 – Jun 2022

- Developed features of XEngine which performs validation, transform and conversion of transaction data
- Created APIs and DRL rules for Encounter Management of Insurance Claims and deployed using Azure Pipelines for CI/CD

**Graduate Research Assistant**, MuSyC Lab, Missouri State University Aug 2018 – Apr 2021

- Implemented a Source Code recommendation tool using Python Flask for searching source code in the local repository
- Developed Source Code Summarizer in using an unsupervised natural language processing method
- Implemented reformulated query suggestion system for the users without using any crowd-sourced metadata
- **Publication:** SoCeR: A New Source Code Recommendation Technique for Code Reuse (IEEE COMPSAC 2020)

**Senior Software Engineer**, Synesis IT Limited, Bangladesh Jan 2018 – Jul 2018

- Developed management software for ~10k employees and migrated ~110M population census records from old legacy system
- Developed Payroll, Budget Management system, and Personal Data Sheet using .NET and Entity Framework

**Software Engineer**, Synesis IT Limited, Bangladesh May 2016 – Dec 2017

- Prototyped ~250M bio-metric data into centralized API system for SIM operation
- Ensured 500 TPS in Oracle 12c by PL/SQL stored procedures with Spring JPA, Hibernate
- Implemented business models by developing REST APIs with Spring MVC, Maven, JWT authentication

## EDUCATION

**Missouri State University**, Springfield, USA Aug 2018 – May 2020

Masters in Computer Science

**Bangladesh University of Engineering & Technology**, Bangladesh Feb 2011 – Mar 2016

Bachelor of Science in Computer Science and Engineering