

Shazeb Ata

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Education

Arizona State University

Master of Science, Computer Science

August 2023 – May 2025

GPA: 4.0/4.0

- **Coursework:** Distributed Software Development, Distributed Database Systems, Cloud Computing

Indian Institute of Technology Roorkee

Bachelor of Technology, Engineering Physics

August 2016 – June 2020

GPA: 7.73/10.0

Experience

Senior Data Scientist

HiLabs Inc

Pune, Maharashtra

October 2020 – May 2023

- Led a team in constructing a REST-API from scratch, leveraging Java Spring-Boot and deployed it on AWS
- Accomplished seamless integration into one of largest Health Plans (Anthem) in its claims adjudication system, with API assuming a pivotal role in averting over \$2 million in annual over payments within inpatient claims data
- Developed comprehensive API documentation using Swagger UI, ensuring clear and accessible communication for development teams and stakeholders
- Authored Hive queries to ingest and explore claims data on Hadoop system, executed Spark Scala jobs via HiLabs MGest platform, and subsequently indexed data on Solr, greatly enhancing search capabilities
- Implemented DevOps pipelines utilizing services such as EC2, EMR, RDS, Load Balancer, and S3. Collaborated within the central log and disaster recovery team to ensure the resilience of the system and the integrity of the data

Software Development Computer Vision Intern

Fujifilm Japan

Yokohama, Kanagawa

May 2019 – July 2019

- Analyzed various parts affixed to a toy named Baymax by employing Mask RCNN to distinguish contours of each part, assign category to them and calculate percentage of each color present on a part
- Incorporated multiple branches into Resnet layer of Mask RCNN, reducing processing time by 4 times
- Created a rudimentary user interface (UI) utilizing Python Tkinter Library for visualizing attached parts

Projects

Aries Webpage

2019

- Developed RESTful routing via Express.js, where each route featured one or more handle functions and deployed the app on Heroku
- Established an inventory management system employing Node.js and MongoDB, with communication facilitated through Mongoose, and user authentication via Passport.js resulting in a 50% reduction in data entry errors

Distributed Services And Web Application Suite

2024

- Engineered a multithreaded hotel room booking system using C# with dynamic pricing models, event-driven agent callbacks, and synchronized shared buffers, simulating real-time client-server interactions with semaphores and thread-safe communication which resulted in a 40% improvement in processing throughput for concurrent orders
- Built multiple remote Web services including temperature conversion, numerical string sorting, and CAPTCHA verification using WCF and SOAP protocols; deployed locally and integrated via ASP.NET Web Forms reducing service integration time by 50%
- Architected and deployed a secure, layered ASP.NET application including Default, Member, and Staff pages with Forms Authentication, encrypted XML-based credential storage, session/cookie handling, and custom DLL libraries for encryption, enhancing system security and ensuring role-based access compliance for user workflows

Scalable Multimedia Processing Pipeline On AWS

2024

- Orchestrated deployment of serverless components using AWS Lambda with Docker containers to process video frames via OpenCV and FFmpeg, then extended the system to EC2-based auto scaling using Amazon SQS to dynamically adjust worker nodes, reducing processing latency by 25% and cutting infrastructure costs

Skills

Languages: C++, Python, Java, Bash, Matlab, Scala, SQL, Fortran, SAS, C#

Web Development: Node.js, JavaScript, HTML/CSS, Spring Boot, Django, Express.js, .NET

DevOps: Git, Microsoft Fabric, Linux, AWS, Docker

Big Data and Databases: MySQL, PostgreSQL, MongoDB, Snowflake, Solr, Hive, Hadoop, Apache Spark, Tableau

Software Engineering: REST APIs, Multithreading, Design Patterns, CI/CD, Object-Oriented Design