SHAIK MANSOOR MOHAMMAD

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EDUCATION

B-Tech	Visvesvaraya National Institute of Technology, Nagpur (2012 -16) Computer Science & Engineering	7.08/10
High School	Narayana Junior College (2010 -12)	97.1 %
Secondary School	Viswabharathi Vidya Niketan (2009 -10)	90.5 %

TECHNICAL SKILLS

I believe programming is more about the algorithms rather than the language we use. Hence, I am willing to learn and adapt to any given language.

Languages: C, C#/Asp.Net, SQL Server, JavaScript, VueJS, AngularJS, Html/CSS
Dev Ops: Azure Dev Ops, AWS, Heroku and Jenkins

Areas of Interest: Data Structures and Algorithms, System Design and Architecture and Infrastructure Dev Ops Work

Hands on experience on TypeScript, Knockout Js, Python, Django Framework, Amazon AWS, and Heroku.

WORK EXPERIENCE

Planful Software India Pvt Ltd Hyderabad **Aug 20 to Present**
Software Development Engineer II

- **Workforce Planning**: (C#/Asp.Net, SQL Server, AngularJS and internal tools)
  (Tool that help organizations manage their workforce intelligently and help them make planned decisions)
  - Reduced reports rendering time that displays compensations data of employees against their positions with detailed information across periods(months) from minutes to seconds(~70% reduction in time). This was a legacy code which had quite a few unnecessary file conversions which were in place to provide support to frontend library they were using. Figured out alternatives that can improve this by having fewer conversion and lazy loading on frontend
- Variance Calculation of employees from budgeted to actuals. Budgeted amounts in every organization will have differences from actual numbers which are crucial to be taken care so that they can make pre-determined decisions by allocating budget where need be.
- **ETL -AWS S3 to Sql Server via Azure Storage:** (Azure Data Factory, Azure Logic Apps, Blob Storage)

- Reading a set of files that are uploaded to a S3 bucket and getting a delta of already processed files by keeping a replica of the same in Azure Blob Storage (the data needs to be retained that has been bought from 3rd party vendors)
- Setting up pipelines that process the raw data we have got by running parallel processes on a huge data, merging them in after the processing and storing the data to sql server on a staging table which is then picked up by an independent process for further processing.
- Setting up trigger to schedule the jobs to run at specific interval with email alerts being set using logic apps http web request that listens a post request and sends an email with Microsoft Teams integration

- **Prediction Engine:**
  - **Prediction Engine Health Check API**, An health check api which was crucial for a prediction algorithm we have come up with that builds up a dataset with different configurations supported by engine over a period of time and storing the initial data set that has been approved by the data science engineers. This is then periodically compared with this data with a variance calculation over a period of time and alerting internal users over breaching a specific limit
  - **Dimension Exclusion Rows,** in our planning each of our clients have multiple Accounts, Departments, Projects, Currencies, Time etc., we call these crucial parameters in a business as segments. The data uploaded in our system is eventually mapped against a combination of these. The historic data that has been fed into our system is used to predict the future values using an inhouse built algo. There have been few exceptions to our client who would prefer not to predict against a certain combination. To overcome this, we have designed a way to specify dimension combinations that needs to be excluded during a process which feeds the data in our fact tables. Since the data is huge and dimension combinations can be specified with different combination, we have come up with an optimized way of bucketing our inputs, processing them with hash set keys which is base for our lookup and then storing the data eventually to our fact tables

FactSet Research Systems Inc., Hyderabad **June 16 to Aug 20**

Software Engineer III

- **Custom Tickers Management**: (C#/Asp.Net, SQL Server, VueJS, Typescript and internal tools) (Ticker: A ticker symbol or stock symbol is an abbreviation used to uniquely identify publicly traded shares of a particular stock on a particular stock market) ○ Was part of complete Software Development Life Cycle right from planning and analyzing the client requirements till the go live.
  - We had gone through quite a few requirement tuning sessions to better understand the client needs, Database design, API and service layer architecture required.
  - Backend was developed using C#/Asp.Net for API's, Service and Dao layer with help of libraries like AutoMapper, Autofac and Entity Framework
  - Frontend was developed using VueJs framework using Single File Component architecture which was easy to scale
  - Monorepo development strategy was used to separate reusable components that can be built as a separate library as there was a requirement that some of the components will be used in a different app.
  - Was part of DevOps work required to get the changes promoted to Production where in there was work involved in setting up the environments to host and creating services to manage authentication middleware.

- **Notes Application** (C#/Asp.Net, SQL Server, Entity Framework, WebApi, NLog, Automapper, Swagger, JavaScript and Angular 1.6):
    - Legacy application used by Analysts to manage their Research Notes with a lot of customization as per clients on different aspects (permissioning, approvals, dynamic customized fields, grid view with various filters, different sources of submissions (saving research sending an email), email alerts etc.,)
    - Was part of development team involved in implementing REST Api's which were directly exposed to clients who prefer to use our data instead of complete tool.
    - Implementing Swagger to help aid in developing the new API for the customer. One of the main requirements of the customer was that they needed a well-documented API to be able to make use of data in other 3rd party apps.
    - Architectural Reviews before starting with an enhancement, Code Reviews on changes submitted and Test-Driven Development was part of the development process.

- **Batch Processing Tool**: (Managing bulk uploads by accepting an excel files with required meta data using C#/Asp.Net, AWS SQS as a Messaging Queue Service and AWS S3 Buckets) ○ Was part of a team that were involved in automating a legacy way of onboarding clients who used to share us their previous researches and publications that need to be uploaded to our servers.

- **DevOps Tools**: ○ Aws Lambda with CloudWatch that has a continuous integration with GitHub and listens for any active pushes being made on Pull Requests by collaborators and trigger a build to run unit and integration tests on the changes made.
    - Setting up Review Apps (Publishing apps while it gets code reviewed by peers) to ease the process of Development and to get early feedback from Product Owners.
    - Used to develop temporary dev ops tools used by our operations teams internally to handle adhoc requests wherein we used to get different requirements from clients. One such requirement was to read files in a folder and generate an excel using meta data available in files.

MAQ Software, Hyderabad **May 15 to July 15**

Software Intern

- Majorly responsible for Development. Testing and Integration of new features in existing services

ACADEMIC PROJECTS

E-Commerce Platform:

Designed and developed an end to end e-commerce website with admin panel to manage stock, orders, promotions etc., and payment integration with Instamojo.

Tools Used: Angular JS, Django with MySql Database, JavaScript, HTML, CSS, Bootstrap

Hosting Environment: Amazon AWS

HelpMe Android App:

An Android based application to obtain geo-location of users dynamically which can be used by friends or local technicians to showcase their business and reach end customers.

Tools Used: Django with django-google-maps to utilize google maps api's

Hosting Environment: Heroku

Library Book System:
Developed a Library management system for an admin to manage inventory, books issued and search using Linked Lists and Trees.

ACHIEVEMENTS AND AWARDS

- Bagged 34th Rank in AP Eamcet
- Bagged 3786 Rank in All India Engineering Entrance Examination
- Active participation on online competitive websites CodeChef, HackerRank(https://www.hackerrank.com/mansoormohd95), Spoj etc.,