Shubham Arun Malankar

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CAREER OBJECTIVE

My goal is to become a successful software developer by designing state-of-the-art software solutions and proactively learning new technologies in Machine Learning techniques, Object-Oriented Programming (Python, Java), Web Development, and Database Management.

WORK EXPERIENCE

Graduate Teaching Assistant, *University of Texas at Arlington* **Jan 2023 - Present**

- Guided a class of 60 students on Software Engineering and Artificial Intelligence courses, through group projects facilitated hands-on over **Agile** and **Waterfall** methodologies and improved student understanding by 80%.

Assistant Software Developer, *Tata Consultancy Services* **Nov 2019 - Dec 2021**

- Designed and developed 12+ **backend microservices** using **RESTAPI** in JSON and XML further processing it in Java and SQL.
- Exhibited the potential to multitask by managing 3 full stack projects for the client in **JSP**, **RDBMS**, HTML and CSS.
- Led a team of 4 to understand, design, deploy and maintain projects from scratch along with it created a **CICD** pipeline for easy deployment of new functionalities reducing the workaround time by 60%.
- Participated in **user story** discussions, **code reviews**, derived an optimal solution by analyzing all possible test cases increasing understanding by 70%, followed **object-oriented** approach reducing rework and faster product delivery.
- Provided demo presentations for better understanding along with **support** and **maintenance** to the client round the clock.

CERTIFICATIONS

- **Microsoft Certified** - Azure Fundamentals, Azure AI Fundamental, Azure Data Fundamental, Developer Associate.
- **Google Cloud Certified** – Associate Cloud Engineer.

EDUCATION

University of Texas at Arlington *Master of Science | Computer Science | GPA:4.00/4.00* **Jan 2022 - Dec 2023**

University of Mumbai *Bachelor of Engineering | Computer Engineering | GPA:7.02/10.00* **Aug 2015 - May 2019**

Courses : Artificial Intelligence, Machine Learning, Data Mining, Data Analysis and Moduling Techniques, Cloud Computing, Database Systems, Design and Analysis of Algorithms, Distributed Systems, Advance Topics in Software Engineering, Python.

ACADEMIC PROJECTS

GCP Service Utilization **Mar 2023 - Jun 2023**

- **Optimized cost** and **enhanced performance** in Google Compute achieving 70% cost **reduction**.
- Incorporated **autoscaling** feature for deployment while designing the Kubernetes cluster using default **node pool** in **cloud shell** reducing human interaction by 50%.
- Created **GCP firewall** rules to allow or deny traffic to and from VM's instances based on specified requirements.
- Worked on tools like **Docker** Compose, **Kubernetes** for Orchestration, GCP **dataflow** for batch processing, Cloud SQL and Big Query for **relational** transaction and **analytical** processing respectively.

Music Share Application **Aug 2022 - Dec 2022**

- Designed a web application using **React** and **NodeJS** for user-friendly music file uploading and sharing, integrated seamless connectivity with **MongoDB** and integrated secure Google login.
- Initiated **Firebase** to streamline storage and improve the performance of the React application, ensuring **smooth data handling** and enhancing the overall user experience.
- Implemented **chat rooms** where user can invite there friends and enjoy music together, significantly increased user interaction.

Toxic Comment Classification **Aug 2022 – Dec 2022**

- Employed Python3 in deep learning algorithms such as **CNN** and **LSTM-CNN** achieved accuracy rates of 98% and 97% respectively, drastically **reducing** the need for manual review and improving customer experience.
- Designed a function to implement the model which could help **predict** the level of toxicity in the sentence.
- Used **NLTK** natural language processing library to remove all the **stop words** to increase accuracy by 6%

SKILLS

Programming Languages : Python, Java, JavaScript, PowerShell, C/C++, .NET

Framework and Libraries : Pandas, Numpy, Sciket-Learn, Keras, Deep Learning, PyTorch, TensorFlow, SciPy, NLP (BERT, LSTM, NLTK)

Cloud and Web Technologies : Azure, GCP, AWS, HTML5, CSS, JSP, PHP, Apache Tomcat, XML, JSON, ReactJS, NodeJS

Tools and Technologies : Kubernetes(K8s), Dockers, Eclipse, PyCharm, Jupyter Notebook, Anaconda, Postman (REST API), SoapUI (SOAP API), Git, VS Code, Weka, Orange, Firebase, ETL, Jira, Jenkins.

Database Technologies : SQL, MySQL, MSSQL server, PostgresSQL, XAAMP, NOSQL, MongoDB, Big Query, Relational DBMS