

# Shubham Arun Malankar

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## 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, facilitated hands-on over Agile and Waterfall methodologies; through group projects improved student understanding by 45%.

### Assistant Software Developer, Tata Consultancy Services

Nov 2019 – Dec 2021

- Designed and developed 12+ server-side application based on SaaS using Java and restful web services.
- Exhibited the potential to multitask by managing 3 full scale projects for the client with daily Scrum meeting.
- Collaborated with 3 others to understand, design, deploy and maintain projects from scratch with CICD pipeline.
- Initiated discussions for user story, derived a solution by critically analyzing all scenarios reducing rework by 70%.
- Focused more on optimization of the result delivery from microservices increasing client satisfaction by 60%.

## CERTIFICATIONS

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

## EDUCATION

### The University of Texas at Arlington

Jan 2022 – Dec 2023

Master of Science - Computer Science(4.00/4.00)

### The Mumbai University

Aug 2015 – May 2019

Bachelor of Engineering - Computer Engineering(7.02/10.00)

Course Work – Database Systems, Design and Analysis of Algorithms, Distributed Systems, Software Engineering – Quality, Analysis and Maintenance, Distributed Systems, Artificial Intelligence, Machine Learning, Cloud Computing

## SKILLS

**Programming Languages :** Python, Java, C, C++, .NET

**Framework and Libraries :** Pandas, Numpy, Scikit-Learn, Deep Learning, PyTorch, Tensorflow, Spring

**Cloud Technologies :** Azure, GCP, AWS

**Web Technologies :** HTML, JavaScript, JSP, Apache Tomcat

**Tools and Technologies :** Kubernetes(K8s), Docker, Eclipse, PyCharm, Jupyter Notebook, Anaconda, Postman (REST API), Git, VS Code, SoapUI (SOAP API), NodeJS, Firebase, React.JS, ETL, Jira, Jenkins, JSON, XML

**Database Tools and Technologies :** SQL, MySQL, MSSQL server, XAAMP, NOSQL, Big Query, Relational DBMS

## ACADEMIC PROJECTS

### GCP Service Utilization – Google Cloud Platform, Cloud Shell, Python, HTML, Kubernetes

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 - MERN, Firebase

Aug 2022 – Dec 2022

- Designed a web application using React and NodeJS for user-friendly music file uploading and sharing.
- Collected the application data in MongoDB and handled authentication with Firebase.
- Implemented group session to enjoy music by inviting a friend to it, increased application experience by 60%.

### Toxic Comment Classification – Python, Data Structures, Deep Learning, AI, ML

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 increasing accuracy by 6%

### Max Connect 4 – Python, Data Structures

May 2022 – Aug 2022

- Constructed interactive mode and one move mode using Alpha-Beta pruning with depth limited search.
- Focused on algorithm optimization to identification least cost for most favorable next move outcome in the state space search.

### Responsive Voice API – CSS, HTML, JavaScript, Postman

Sep 2018 – Apr 2019

- Built the web application to convert text to speech using CSS and HTML.
- Pinpointed the API calls to be used by Java script and tested via postman in order to validate the API calls.