

EDUCATION

Master of Science (MS), Computer Science University of Utah, <i>Salt Lake City, UT</i>	<i>Aug'21 - May'23 (Expected)</i> GPA: 4.0/4.0
Bachelor of Technology (B. Tech), Computer Science & Engineering Maulana Abul Kalam Azad University of Technology, <i>India</i>	<i>Jul'16 - Jun'20</i> GPA: 9.48/10

TECHNICAL SKILLS

Core Skills: Java, C/C++, C#, JavaScript, HTML/CSS, SQL, NoSQL, Python, MATLAB, RESTful API, Web Services, Microservices, Applied Machine Learning, Microsoft Azure, Android, AWS
Frameworks: .NET, JUnit, Mockito, PowerMockito, Moq, React.js, Express.js, Socket.io, Spring Boot, TensorFlow
Tools: Git, Eclipse, IntelliJ, Maven, Visual Studio, Visual Studio Code, Swagger, Docker, Postman, Jira, Selenium
Databases: MySQL, Teradata, Oracle, MS-SQL-Server, MariaDB, MongoDB, PostgreSQL, Firebase
Coursework: Advanced Algorithms, Operating Systems, Data Structures, Principles of Computer Programming, DBMS, Object Oriented Programming, Computer Networks, Theory of Computation, NLP, Security Operations, Data Mining

WORK EXPERIENCE

- Software Engineer Intern, Motorola Solutions Inc.** *May'22 - Aug'22*
West Valley City, UT
- Implemented a CLI-based System Analyser application for **FLEX** (Computer Aided Dispatch) Software to monitor and record usages and configuration changes at the client end. [Java, JUnit, Mockito, PowerMockito, MariaDB]
 - Optimized data transfer in the client-server architecture, thereby increasing system performance by **20%**.
 - Enabled the business to plan crucial timely upgrades and bug fixes for the software to enhance productivity.
 - Designed and developed RESTful web services for tracking, comparing overtime changes in software configurations at different client sides as versioned snapshots, and restoring earlier configurations (CRUD operations). [C#, .NET, MongoDB, ActiveMQ, Swagger]
 - Built a web-based application to view and compare category-wise software configurations in various snapshot versions and at different clients utilizing service endpoints for internal business needs. [HTML, CSS, JavaScript, React.js]
- Graduate Teaching Assistant, University of Utah** *Aug'21 - Present*
Salt Lake City, UT
- Reviewed codes and projects, graded and guided a cohort of **126** students in Graduate courses namely, Mobile Application Development, Introduction to Software Development, and Data Structures and Algorithms. [Java, C++, Android]
- Software Engineer, Cognizant** *Sep'20 - Jul'21*
Chennai, India
- Wrote optimized SQL queries to reduce the time of data retrieval and processing from different databases. [Teradata]
 - Designed and built monthly and quarterly Healthcare system reports for **Blue Cross and Blue Shield of Minnesota**. [SSRS, WhereScape Red]
 - Automated the timely generation of over **100** reports along with the sub-reports using Subscription queries. [PowerBI]
- Research Intern, Jadavpur University** *Dec'18 - Jan'19*
Kolkata, India
- Extracted features using 5 feature descriptors, namely, uniform local binary pattern, horizontal-vertical neighborhood local binary pattern, Gabor filters, histogram of oriented gradients, and pyramidal histogram of oriented gradients.
 - Proposed a feature selection technique called Supervised Filter Harmony Search Algorithm based on Cosine Similarity and minimal redundancy maximal relevance concept using Pearson's Correlation Coefficient.
 - Tested the model on 2 benchmark facial emotion recognition datasets, namely the Radboud faces database and the Japanese female facial expression. [MATLAB, Python]
 - Achieved highest Classification Accuracy of **97.79%**, Precision of **98.6%**, Recall of **97.8%**, and F-measure of **98.19%**. 🏆

RELEVANT PROJECTS

- Real-time Social Messaging and Chat Application** *Sep'22 - Oct'22*
- Built a real-time messaging application that enables users to send direct messages to each other and create/edit channels for sending messages to groups. [React.js, Stream API]
 - Implemented routing between the incoming requests from client side and the service endpoints. [Express.js, Node.js]
 - Enabled SMS notification for incoming direct messages and group messages to users on their mobile phones. 📞 [Twilio]
- A Bi-stage Feature Selection Approach for COVID-19 Prediction using Chest CT images** *Sep'20 - Oct'20*
- Trained a CNN model with CT images and extracted features from the model. [TensorFlow-Keras]
 - Incorporated ensemble of two filter methods namely Mutual Information and ReliefF for initial screening of features and applied wrapper-based Dragonfly Algorithm for a further selection of relevant features. [Python]
 - Tested the model on 2 open access databases namely SARS-CoV-2 CT images and COVID-CT datasets, and attained Prediction Rates of **98.39%** and **90.0%** respectively. 🏆 [Scikit-Learn]