TANYA A

233 Taylor Ave N, Seattle, Washington, 98109 | tanya961211@gmail.com | 480-803-7244

EDUCATIONs

Master of Science, Computer Science

August 2021 - May 2023

Arizona State University, Tempe, AZ

Bachelor of Technology, Software Engineering

SRM Institute of Science and Technology, Chennai, India

July 2014 - May 2018

TECHNICAL SKILLS

Programming Languages Python3, Java, MATLAB, Clingo

Databases NoSQL, SQL, MySQL, SQLite, ORACLE, SAP SYBASE, TERADATA

Cloud Platforms Amazon Web Services(S3,DynamoDB, SageMaker, Code Commit, Code Whisper, EC2,lambda)

Web Technologies RESTful API, JavaScript, AngularJS, HTML5, CSS3, XML, SOAP Services

Libraries/Frameworks TensorFlow, Scikit-learn, Pytorch, LLM, Pandas, NodeJS, Numpy, Flask, Kubernetes, Docker Eclipse, Visual Studio, Net Beans, Android Studio, PyCharm, Git, LabelBox, Google Charts **General Software Tools/IDE:**

PROFESSIONAL EXPERIENCE

Full Stack Engineer II - GEICO, Washington, USA

June 2024 - Present

- Collaborated with a cross-functional team to develop and implement a new partner integration platform, enabling GEICO partners to seamlessly onboard, generate quotes, and bind new users with diverse requirements.
- Played a key role in designing and architecting the onboarding process, ensuring scalability, flexibility, and robustness.
- Utilized Agile methodologies to streamline development processes, resulting in efficient project management, timely delivery of features, and continuous enhancement of platform capabilities.

Software Engineer-Fluke Corporation, Washington, USA

June 2023 - December 2023

- Developed a web application to enable Fluke's customers to maintain their equipment using predictive fault monitoring, using real-time thermal images captured by a thermal camera.
- Leveraged AWS services (AWS Code Commit, AWS S3, Sagemaker) for secure version control and cloud-based data storage, while utilizing Flask, JavaScript, and SQLite for app development.
- Leveraged ML/AI to train the YOLOV8 model using customized hyper-parameters, used to perform auto analysis on different styles of Electric panels.
- Capitalized Labelbox, a robust annotation tool, for image annotations and model improvement
- Evaluated model performance using metrics like the confusion matrix, precision-recall (PR) curve, and training time analysis, ensuring optimal results. Recall of 0.98 and Precision of 0.99 on test data.

Software Engineer - Larsen and Toubro Infotech, Chennai, India

Aug 2018 - July 2021

- Designed a solution for Citi Bank's Data Mart for sourcing data from multiple OLTP databases like Oracle & Sybase.
- Implemented the application's User Interface for building & sharing custom reports using Java Swings, and JavaMail API.
- Designed a database comparison system to identify data quality gaps using count and checksum validation.
- Implemented an end-to-end testing framework, utilizing NodeJS, JUnit, Selenium WebDriver, TestNG & QTP, to enhance system reliability through thorough sanity, smoke, and regression testing for the Emirates Gas website.
- Agile Experience Acted as a scrum lead and spearheaded the team's agile scrum practices

PUBLICATIONS & CERTIFICATIONS

•	Randomised Traffic Path Analysis and Formation for Detecting Distributed Denial of Service Botnet Attacks	July 2019
	(International Journal of Recent Technology and Engineering)	
•	Certified Tester Foundation Level (International Software Testing Qualifications Board)	Sept 2018

Certification in Core Java (Hewlett Packard Education Services)

July 2017

ACADEMIC PROJECTS

Image Feature Extraction and Similarity Measurement (Python, Dimensionality Reduction, Classification)

- Extracted features including Color moments, Local Binary Patterns, and histogram-oriented Gradients for grayscale image datasets, computing top K-Latent semantics for each feature model.
- Collaborated in a group to implement dimensionality reduction techniques such as PCA, SVD, and K-means for computing similarity matrices using ASCOS++ and Personalized PageRank.

Binary Image Classification and clustering using MRI scans (Python, Machine Learning)

- Developed image-slicing techniques utilizing contours to extract brain boundaries from rs-fMRI scans dataset.
- Applied KNN clustering techniques to classify extracted brain slices from rs-fMRI scans, implementing transfer learning on the Exception model for binary classification of brain images as Resting State Network or noise. Achieved 99.12% training accuracy by leveraging image augmentation to mitigate overfitting.