

ANIRUDH SRINIVASAN

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EDUCATION

Arizona State University, Tempe, AZ

August 2021 – May 2023

Master of Science, Computer Engineering (CS Track)

SRM Institute of Science and Technology, India

July 2015 – May 2019

Bachelor of Technology, Electronics and Communication Engineering

PROFESSIONAL EXPERIENCE

Data Engineering Intern, NBCUniversal, New York, United States

June 2022 – August 2022

Active Account Generation Tool for Peacock

- Designed a user-friendly tool to extract Monthly Active Accounts for marketing and data science teams, supporting Peacock.
- Conducted advanced analysis of 200,000 Peacock Premium data points using cutting-edge techniques to gain insights.
- The tool was expected to boost conversions by 10-12% by converting Premium users to Premium Plus Peacock subscriptions.
- Designed and implemented a robust pipeline utilizing Airflow DAG to automate the process of generating active users.
- Ensured data accuracy and completeness by implementing thorough pre-execution validation and transformation of input.

Code Coverage for Core Functionality

- Developed comprehensive test cases using PyTest and Unittest frameworks, covering 90% of potential edge cases.
- Improved error handling by 20% with robust logical error checks and data type assertion for arrays.
- Adopted DevOps with Docker for image creation and code deployment, and Kubernetes for scaling on GCP.
- Continuously monitored and optimized application performance for reliability and scalability to meet changing business needs.

Software Engineer, Larsen and Toubro Infotech, India

May 2019 – May 2021

Modern Browser and Grid Remediation

- Improved website functionality by 90% for 500k users using JavaScript (jQuery) and CSS (Bootstrap) for cross-browser compatibility.
- Conducted R&D to upgrade grid controls, resulting in cost savings by switching from Infragistics 17 to custom UI controls.
- Involved in migration of source code for over 180 applications from SVN to GitHub.
- Optimized website performance by reducing redirect chains and increasing load time by 20%.

Production Management and Support

- Created a template for Jenkins file following the declarative pipeline syntax to build, test and automate deployment of applications.
- Resolved complex table update issue by enabling auto-refresh feature through data analysis and integration expertise.
- Conducted intensive testing on all features and achieved a 100% pass rate for performance post the .NET framework upgrade to 4.8.

ACADEMIC PROJECTS

Offloading images and making prediction on parts of image

Nov 2022

Utilized – Java, XML, Python, Flask, OpenCV

- Designed parallel image processing leading to a 40% reduction in processing time compared to single-device processing methods.
- Improved image processing speed by 50% with OpenCV implementation, including tasks such as resizing and thresholding.
- Installed the trained ML model on the slave devices to effectively predict on offloaded image parts in image processing pipeline.

Mobile Application to classify handwritten images of digits

Oct 2022

Utilized – Java, XML, Python, Flask

- Utilized OkHttp library to manage network requests, ensuring efficient data transfer.
- Developed a CNN framework using Keras and TensorFlow libraries with the MNIST dataset to achieve 0.97 F1 score.
- Implemented a RESTful API to handle image classification requests from the mobile application and respond with results in real-time.

Weather Application

Jan 2022

Utilized – JavaScript, HTML, CSS, OpenWeatherMap API, Node.js

- Implemented real-time weather data retrieval from APIs with fast response time (less than 1 sec).
- Developed Node.js server for real-time weather data retrieval, utilizing Express, HTTPS, and body-parser frameworks.
- Designed an interactive UI utilizing CSS frameworks like Bootstrap and Foundation.

Building a Spam Filter using Naïve Bayes

Sep 2021

Utilized – Python, Pandas, NumPy, Sklearn

- Built a vocabulary accounting for case sensitivity and observed the word occurrences in every message.
- Classified messages achieved a True Positivity Rate of 0.988 on the validation dataset.

Product Price Comparison

July 2019

Utilized – JavaScript, HTML, CSS, Microsoft SQL Server, C#

- Developed a product price comparison platform, with a database of over 10,000 products from 5 online retailers.
- Implemented web scraping to gather real-time product pricing data with less than 2% average discrepancy.
- Utilized Map API to return location of nearest product owner(s) in under 20 miles based on zip-code provided.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, SQL, HTML, CSS, C#, PySpark

Frameworks: Dotnet, Express, Flask, NodeJS, Bootstrap, jQuery, FastAPI, ReactJS