Neel Suthar

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EDUCATION

Master of Science, Computer Science *Jan 2020 - Dec 2021*
The University of Texas at Arlington GPA: 3.70
Bachelor of Engineering, Computer Engineering *Aug 2015 - May 2019*
Gujarat Technological University GPA: 8.14/10

SKILLS

Programming Langueges: Python, Java, JavaScript, PHP, C/C++
Development/Testing: Python Flask, Django, React, Redux, HTML, CSS, Bootstrap, Bulma, JQuery, Laravel, Word-Press, Node.js, Express.js, Spring framework, Passport.js, REST APIs, GraphQL, jUnit, pyUnit
Database: SQL (MySQL, Microsoft SQL server), NoSQL (MongoDB, Redis)
Cloud/DevOps: Git, Heroku, IBM Bluemix, AWS(Amazon Web Services), MS Azure
Data Science/Analytics: NumPy, Scikit-Learn, Pandas, Matplotlib, Tensorflow, PyTorch, NLTK, OpenCV, Keras
Other: Windows, Unix/Linux Platform, Microsoft Office, Object-oriented programming, Problem-solving, Test-driven development, Software Design patterns, Agile development methodology, Software development lifecycle
Certifications: Microsoft HTML5 Application Development Fundamentals, Spring Framework Masterclass, Spring & Hibernate (In progress)

EXPERIENCE

Graduate Teaching Assistant/Webmaster, The University of Texas at Arlington *Jan 2021 - Present*
- Managing and updating the potential information for a website of the Department of Marketing, College of Business.
- Helping department faculties and Ph.D. students in their day to day tasks and assessing any technical issues.
- Maintaining the electronic devices and other kinds of resources provided to faculties and students via department

Software Developer, Writopedia Consultants Pvt. Ltd. *May 2019 - Oct 2019*
- Designed and implemented a database to keep track of the most liked articles of various hot topics for SEO purposes.
- Developed many blog-post-oriented pages for websites using React.js, Flask, Django, HTML, PHP, and WordPress API.
- Integrated many iOS apps made using Expo and React Native framework with an authentication feature for privacy.

Machine Learning Intern, eInfoTechs IT Solution *Aug 2018 - Apr 2019*
- Reduced training time by developing custom functions to clean and process data gathered from the various dataset.
- Trained various ML models for sentiment analysis of tweets, animal detection, and signature extraction from a document.
- Developed and deployed ML web apps related to brain tumor detection, motion detector, and crowd control on AWS.

Web Developer, Divine IT Hub *Jan 2018 - Jun 2018*
- Built custom reusable, responsive, and intuitive components single-handedly using scalable framework React.js.
- Improved consistency of existing apps by replacing commonly used fields with attractive reusable components.
- Enhanced existing database functionalities by implementing backend services using Node.js to be used with many apps.

PROJECTS

Microservices using Spring Boot & Spring Cloud (JAVA, Spring, Zuul, OpenFeign, Eureka, Zipkin)
- Created Spring Cloud config server to manage the external properties across different environments in a central place.
- Built and set up the Eureka discovery server to register services and used OpenFeign for API to API communication.
- Configured Zuul and Spring Cloud API gateways with Zipkin and ActiveMQ for distributed tracing and logs streaming.
- Developed Property File Access, Product Stock, and Product Enquiry services with multiple instances.

Volunteering Management System (JAVA, Spring Boot, React, Bootstrap, HTML)
- Developed a system where students can apply for volunteering under the professor on their departments approval.
- Designed the schemas and created API to be consumed by React front-end and added authentication using Spring Boot.
- Designed and created dashboards for users such as students, professors, department admin, and admin using Bootstrap.

Rating Predictor on Game Review (Python, NumPy, Pandas, SVM, sklearn, Python Flask, AWS EC2
- Developed a Flask app to predict the rating(scale of 1-10) of a given review using the BoardGameGeek Reviews dataset.
- Developed a logic to clean, format, normalize, and vectorize the reviews using Pandas, TfidfVectorizer for model training.
- Trained the data using sklearn LinearSVC then saved the model as well as vectorizer using pickle to use for prediction.

Movie Recommendation System (Python, Pandas, NumPy, The Movies Dataset)
- Built a system to recommend several movies to a user based on their input movie with help of The Movies Dataset.
- Developed a logic to identify and convert unique genres, cast, and crew information into binary format for each movie.
- Developed kNN from scratch using distance function to get neighbors based on similarity; got highly accurate results.

Object Counting on webcam Object Detection (Python, keras, TensorFlow, OpenCV, pandas, YOLOv3)
- Trained object detection model with the help of MS COCO dataset using YOLOv3 object detection system and Keras.
- Created processing steps to prepare an image & live webcam feed for prediction and identifying objects in a live frame.