VANDHANA MANIVANNAN

Software Engineer | AWS Cloud Practitioner

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EDUCATION

Master's Degree in Computer Science ***May 2023***

The University of Texas, Arlington, USA

Related Courses: *Database Systems*, *Web Data Management, Data Analysis & Modelling Techniques, Design & Analysis of Algorithms, Cloud Computing, Distributed Systems, Artificial Intelligence, Machine Learning*

Bachelor's Degree in Computer Science & Engineering ***May 2019***

Anna University, India

SKILLS

JavaScript, React JS, Redux, React Native, HTML5, CSS3, Node JS, Express JS, Laravel, MERN, Flask, Django, Bootstrap, REST API, PHP, Service Oriented Architecture, Microservices architecture, Python (Pandas, NumPy, SciPy, sci-kit-learn, Matplotlib, OpenCV), Java, C++, TensorFlow, MATLAB, GIT, JIRA, XML, Jenkins, Oracle, MySQL, MongoDB, Object Oriented Programming, Functional Programming, Amazon AWS, Microsoft Azure, Windows, MacOS, Linux

CERTIFICATIONS

- AWS Certified Cloud Practitioner - Amazon Web Services ***May 2023***

WORK EXPERIENCE

Associate Software Engineer, Yaane Technologies, Coimbatore, India ***Feb 2020 - May 2021***

- Engineered and maintained significant features of the client-facing web application using JavaScript, React, Flask, HTML/CSS
- Collaborated with an agile team to transfer the outdated company website to React, Sass, HTML5
- Contributed extensively to image optimization of client websites using minified JS and CSS, which reduced page load times by up to 30%
- Worked with MySql database and Anaconda (package management) for Django (Python) web framework.
- Engaged with clients weekly, offering technical expertise and knowledge.

Software Engineer Intern, DClicks, Coimbatore, India ***May 2019 - Dec 2019***

- Collaborated with designers and other developers to create reusable UI components.
- Performed quality assurance tests on various sites to ensure cross browser compatibility
- and mobile responsiveness
- Frequently collaborated with back-end developers to integrate API endpoints and troubleshoot issues.

Student Assistant - CSE Department, Anna University, India ***Jan 2016 - Apr 2019***

- Conducted classes for CS 6202 (Programming & Data Structures I) and Facilitated laboratory sessions for CS 6212 (Programming & Data Structures Laboratory)
- Mentored students with their projects and soft-skills

TECHNICAL PROJECTS

Algorithm Visualizer, (Self Started)

Built a React application to visualize different sorting algorithms. Implemented Merge Sort, Quick Sort, Heap Sort, and Bubble Sort. Users can observe how the algorithms rearrange a set of data in real time and how they compare to one another.

Data analysis & data retrieval performance optimization using Redis, UTA

Developed a Flask web application that can analyze any given dataset, importing it into an SQL database on the Azure cloud. The application also provides a web interface that enables users to query and retrieve information from the dataset. Evaluated the performance of the application and enhanced its ability to retrieve data using Redis with an efficiency rate of approximately 95%

Early Detection of Alzheimer's using Machine Learning Models, UTA

Designed a model that can anticipate the initial signs of Alzheimer's disease using test data. To accomplish this, I utilized machine learning and deep learning algorithms like SVM and RFM to examine and predict the likelihood of the disorder. The model was able to achieve an accuracy rate of approximately 80%.

Say It Right, UTA

Developed a student management web application built from scratch using HTML, CSS, React, PHP, MongoDB

Search engine using Azure Cloud services, UTA

Built a Flask web application that searches based on words or word combinations to find relevant documents on the Azure cloud. The search output includes the name of the document and the exact location where the search term is present (e.g. line number or offset). Achieved expected search time complexity.

YouTube Analytics, (Self Started)

Developed a YouTube analytics project that extracts insights from user watch history data using the YouTube Data API. Utilized data analysis techniques to identify top-performing videos, channels, and topics, and presented the findings through visualizations and charts. Achieved a better understanding of user preferences and behavior, enabling personalized recommendations based on viewing habits.