

VANDHANA MANIVANNAN

Full Stack Developer | AWS Cloud Practitioner

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CAREER OBJECTIVE

I aspire to join a team dedicated to developing top-notch software applications. As a Full-Stack Developer, my expertise lies in Object Oriented Programming with a specialization in Python and JavaScript. Furthermore, I possess proficient skills in Web development and Database management.

SKILLS

Programming Languages: Python, JavaScript
Web Technologies: HTML5, CSS, Bootstrap, React, NodeJS, Django, Flask, PHP
Cloud Technologies: AWS, Azure
Database Technologies: MySQL, SQLite, MongoDB
Version Controller: Git
Operating Systems: Windows, Linux, macOS

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

CERTIFICATIONS

- AWS Certified Cloud Practitioner - Amazon Web Services **April 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- Collaborated with an agile team to transfer the outdated company website to React, Sass, HTML5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%
- Engaged with clients weekly, offering technological expertise and knowledge.

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

- Translated UX wireframes and mockups from the design team into interactive and responsive features by utilizing HTML/CSS and JavaScript.
- Designed HTML email templates that resulted in an approximate 25% increase in email click-through rates (CTRs).

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

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 either 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 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 within it where the search term is present (e.g. line number or offset). Achieved expected search time complexity.