

Ankitha Suresh

 [github](#) |  [linkedin](#) |  [ankithasuresh.com](#) |  ankithasures@umass.edu |  +14134661933

EDUCATION

University of Massachusetts, Amherst	09/2023 - Present
Master of Science in Computer Science GPA: 3.88/4.0	
JSS Science and Technology University, Mysore, India	08/2017 - 05/2021
Bachelor of Computer Science and Engineering GPA: 3.74/4.0	

WORK EXPERIENCE

Hewlett Packard Enterprise, Bangalore, India Software Engineer	09/2021 - 07/2023
<ul style="list-style-type: none">- Spearheaded the development and deployment of customized Ansible modules, integrating Serviceguard seamlessly with cloud infrastructure, which reduced deployment time by 80% and optimized scalability.- Developed Python scripts to transform an array-based application into an application-based system, leading to a remarkable 92% improvement in workload recovery efficiency.- Created a highly efficient custom utility script to streamline pre-installation operations for Serviceguard, achieving an 85% reduction in deployment time.- Streamlined the Metrocluster monitor for Bruce Power by programming a site-specific CLI flag, eliminating the need for SSH and significantly improving system efficiency and control.- Pioneered the creation of an automated test suite using Ansible and Azure cloud infrastructure, achieving a 50% reduction in testing time and increasing overall system reliability for Serviceguard's resilience and failover capabilities.- Configured an Ansible script to provision compute resources on Azure cloud, resulting in a 70% reduction in manual provisioning time and enabling the team to scale efficiently.	
Hewlett Packard Enterprise Research and Development Engineer Intern	02/2021 - 08/2021
<ul style="list-style-type: none">- Engineered an automated support matrix webpage, integrating seamless database updates that cut manual data entry by 90%, ensuring precise and timely information for customers.- Architected and deployed an Ansible Playbook to bolster vault support, slashing password recovery requests by 80% and heightening data security.- Developed a customized user interface for Serviceguard Manager, decreasing manual maintenance tasks by 75% and optimizing the management process of serviceguard modules across nodes.	

PROJECTS

Algorithms - AI Flashcards generator for DSA	08/2024
<ul style="list-style-type: none">- Implemented an AI-driven flashcard generator using Next.js and React, creating over 150 flashcards across three distinct sets—Basic DSA, Algorithms, and Advanced DSA—and developed an assessment module with real-time feedback.	
Buddy: Chatbot	08/2024
<ul style="list-style-type: none">- Built a Chatbot with Next.js, React, OpenAI, and Pinecone, achieving 93% improved response accuracy and implementing user authentication and feedback mechanisms, while using MongoDB for secure data management and deploying on Vercel for scalability.	
Crop Yield Prediction	08/2020 - 03/2021
<ul style="list-style-type: none">- Engineered a machine learning model to forecast crop yields using historical weather data and crop-specific features, leveraging Python, scikit-learn, and pandas, and improved accuracy to 86.8% through advanced random forest algorithms with gradient boosting and feature scaling.	
Car Make and Model Classification	08/2020 - 11/2020
<ul style="list-style-type: none">- Designed a highly efficient machine learning model using CNNs to analyze car images, implementing the Inception-v3 model to achieve 92% precision in predicting car make and model for an automotive image recognition system.	
Placement Management System	10/2019 - 12/2019
<ul style="list-style-type: none">- Launched a user-friendly placement management GUI application that streamlined the placement process for the university, reducing effort by 70% and resulting in higher student satisfaction and a more organized system.	

SKILLS

Programming:	Java, Python, Javascript, .NET, PHP, Bash, Android Studio
DBMS:	MySQL, NoSQL, MangoDB, PostgreSQL
Web Development	React.js, Node.js, Next.js, HTML, CSS, REST API,
Machine Learning:	Pandas, OpenAI, Keras, Numpy, Scikit-learn, Matplotlib, Pytest, Unittest
DevOps:	Docker, Ansible, Git, VSCode
Cloud:	AWS, GCP