

# Ankitha Suresh

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## EDUCATION

<b>University of Massachusetts, Amherst</b>	2023-Present
Master of Science in Computer Science	GPA: 3.88/4.0
<b>JSS Science and Technology University, Mysore, India</b>	2017-2021
Bachelor of Computer science and Engineering	GPA: 3.74/4.0

## WORK EXPERIENCE

<b>Hewlett Packard Enterprise, Bangalore, India</b> <b>Software Engineer</b>	09/2021 - 07/2023
<ul style="list-style-type: none"><li>- Spearheaded the development and deployment of customized Ansible modules, integrating Serviceguard seamlessly with cloud infrastructure, which reduced deployment time by 80% and optimized scalability.</li><li>- Developed Python scripts to transform an array-based application into an application-based system, leading to a remarkable 92% improvement in workload recovery efficiency.</li><li>- Created a highly efficient custom utility script to streamline pre-installation operations for Serviceguard, achieving an 85% reduction in deployment time.</li><li>- 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.</li><li>- 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.</li><li>- 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.</li></ul>	
<b>Hewlett Packard Enterprise</b> <b>Research and Development Engineer Intern</b>	02/2021 - 08/2021
<ul style="list-style-type: none"><li>- Engineered an automated support matrix webpage, integrating seamless database updates that cut manual data entry by 90%, ensuring precise and timely information for customers.</li><li>- Architected and deployed an Ansible Playbook to bolster vault support, slashing password recovery requests by 80% and heightening data security.</li><li>- Configured a Python-based alert system with Oracle DBMS, significantly enhancing system reliability by reducing downtime through prompt notifications of critical failures.</li><li>- Developed a customized user interface for Serviceguard Manager, decreasing manual maintenance tasks by 75% and optimizing the management process of serviceguard modules across nodes.</li></ul>	

## PROJECTS

<b>AlgoCards - AI Flashcards generator for DSA</b>	<b>Next.js, React, Open AI, CSS, firebase, Vercel</b>
<ul style="list-style-type: none"><li>- Implemented an AI-driven flashcard generator using Next.js and React, creating three distinct sets: Basic DSA, Algorithms, and Advanced DSA, with over 150 flashcards to streamline the learning of complex concepts.</li><li>- Developed an assessment module to test users' knowledge, providing real-time feedback and enabling personalized learning experiences, resulting in a 80% improvement in knowledge retention for users.</li></ul>	
<b>Buddy: Chatbot</b>	<b>Next.js, React, Open AI, CSS, Pinecone, Vercel</b>
<ul style="list-style-type: none"><li>- Built the Chatbot using Next.js and React, integrating OpenAI for intelligent user responses and Pinecone for advanced retrieval-augmented generation (RAG) capabilities, achieving a 93% improvement in response accuracy based on a dynamic knowledge base.</li><li>- Implemented user authentication and feedback mechanisms to personalize the chat experience and gather user ratings, leveraging MongoDB for secure data management and deploying the solution on Vercel for scalable performance.</li></ul>	
<b>Crop Yield Prediction</b>	<b>ML, Python, Numpy, SkLearn</b>
<ul style="list-style-type: none"><li>- Engineered and optimized a machine learning model to forecast crop yields using historical weather data and crop-specific features. Leveraged Python, scikit-learn, and pandas to preprocess and analyze a comprehensive 5-year agricultural dataset.</li><li>- Enhanced model accuracy to 86.8% by implementing advanced random forest algorithm with gradient Boosting techniques and applying rigorous feature scaling and selection methodologies.</li></ul>	
<b>SKILLS</b>	
<b>Languages:</b>	Java, Python, Javascript, HTML, CSS, Bash, PHP
<b>Frameworks:</b>	React.js, Node.js, Next.js, gRPC, GraphQL, Ansible, REST, Unittest, Pytest, Pandas
<b>Databases:</b>	MySQL, MangoDB, PostgreSQL, NoSQL
<b>Development Tools:</b>	System Design, AWS, Open AI, Git, Jira, VSCode, Pycharm, Vercel
<b>API Design and Architecture:</b>	Microservices, API Design (RESTful, gRPC, GraphQL), Event-Driven Architecture