Ankitha Suresh

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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

Headstarter
SWE Fellow — **07/2024 - Present**

- Contributing to an open-source project by developing and submitting high-quality pull requests (PRs), including an accepted PR for Panora, which involved enhancing functionality and integrating omni-channel API software. Collaborated with a team and demonstrated APIs using Postman.
- Designed and implemented scalable software solutions, including API integrations and data processing pipelines, to support high-performance applications and ensure seamless user interactions.
- Innovated AI models, including a recommendation system using neural networks and a predictive analytics engine with gradient boosting, leading to a 30% increase in user engagement.

Hewlett Packard Enterprise, Bangalore, India
Software Engineer — **09/2021 - 07/2023**

- 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.
- Automated and configured Ansible scripts on Azure cloud infrastructure, reducing testing time by 50% while enhancing system reliability and scalability for Serviceguard's resilience and failover capabilities.

Hewlett Packard Enterprise
Research and Development Engineer Intern — **02/2021 - 08/2021**

- 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

Algocards - AI Flashcards generator for DSA — **07/2024 - 08/2024**

- 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 — **06/2024 - 07/2024**

- 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 — **11/2020 - 03/2021**

- Engineered a crop yield forecasting model using historical weather data and crop features, improving accuracy to 86.8% with advanced random forest algorithms, gradient boosting, and feature scaling in Python.

Car Make and Model Classification — **08/2020 - 11/2020**

- - 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.

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, GraphQL, gRPC
Machine Learning:	Pandas, OpenAI, Keras, Numpy, Scikit-learn, MATLAB
DevOps:	Docker, Ansible, Git, VSCode
Cloud:	AWS, GCP