Ambica khandelwal

Github: https://github.com/aashi01kh
Leetcode: https://leetcode.com/aashi

Email : khaashi123@gmail.com
Mobile : 8923062446

EDUCATION

SRM Institute of Science and Technology   Chennai, India
B.Tech in Computer Science; GPA: 9.22   *September 2020 - June 2024*
Courses: Analysis of Algorithms, Artificial Intelligence, Machine Learning, Probability and Statistics, Network Security.

SKILLS SUMMARY

Languages: C++, Python, Java, SQL, HTML, CSS, JavaScript
Frameworks: React, Node, Springboot, NestJs
Tools: Git, Firebase, Docker, Kubernetes, Arquillian Cube, OpenShift, Bamboo, Jira, Rancher, Kibana, Elasticsearch, Octopus Deploy, MongoDB, SQL

EXPERIENCE

HONEYWELL, Software Developer 1   August 2024 - Present

- Developed and integrated microservices using **ReactJS, NestJS and Spring Boot** for cabin services from major satellite providers such as **Inmarsat and Iridium** to enable reliable Internet connectivity in flight, enhancing the passenger experience, and expanding digital service capabilities.

- Served as the primary **support focal** for multiple product increments (PIs), resolving customer issues, implementing code level fixes that reduced ticket volume, and winning the **Star of the Month** award.

- Developed Help and Health Pages to streamline platform support and reliability: dynamically retrieved release documents and user guides from **Azure Storage containers**, **automated** issue submission with **Jira ticket** creation and **Microsoft Teams notifications**, and implemented live monitoring of external system connections with dynamic in app banners for downtime or discrepancies, enhancing documentation access and user support

- Developed a virtual agent chatbot that leverages **LangChain**, **Azure LLM**, **Postgres MCP server**, and **Qdrant DB** for memory management; enabled users to interact in natural language, with the agent converting NLP input to queries executed via the MCP server and presenting the results conversationally, improving user experience and data accessibility. I have earned the Best Contributor award for timely and high quality delivery.

- Utilized multiple **MCP tools** within GitHub Copilot, including Figma MCP for converting designs to React components, **Bitbucket MCP** for automated PR reviews and code suggestions, and Jira MCP for creating tickets based on EPIC descriptions; delivered $8K in productivity savings through process improvements and automation of manual tasks, earning the Change Champion award for driving organizational efficiency and cost reduction.

HONEYWELL, Software Developer Intern   January 2024 - July 2024

- Researched cluster testing using Arquillian Cube in Java Spring Boot, integrating with Minishift, CRC, and Minikube to reduce testing time.

- Developed a Python script to monitor **RabbitMQ** load, perform mathematical calculations to determine optimal consumer count, and dynamically adjust it via a **Spring Boot** application (WES) for automated optimization. To ensure robust performance under varying loads, I integrated Locust for testing **python** application.

PROJECTS

- **Cross-Pipeline Code Impact Analyzer**: Designed and implemented a mechanism to identify possible cross pipeline code impacts in a microservice architecture with multiple repositories, leveraged **OpenTelemetry** for API call tracing, **MemGraph** to visualize method and pipeline relationships, **Qdrant** to retrieve affected code, and LLMs for impact analysis. This solution significantly reduced cross-pipeline issues.
- **Automated Vulnerability Management**: Developed a Bamboo plan to automatically extract vulnerability data from cyber tools including **Twistlock, Black Duck, and Coverity** implemented automated creation and assignment of Jira tickets with identified vulnerabilities to the cyber team, streamlining security issue tracking and resolution.

COMPETITIVE PROGRAMMING

- **Problem Solving Proficiency**: Solved 350+ LeetCode and 150+ Codeforces DSA problems.
- **Bug Bounty**: Identified a bug in a LeetCode question due to missing test cases; Awarded 100 LeetCode coins as recognition.