

Jahnavi Gona

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## Education

Arizona State University	M.S: Computer Software Engineering	GPA: 4.00
Relevant Coursework: Advanced Data Structures and Algorithms, Foundations of Software Engineering, Semantic Web Engineering, Software Verification and Validation, Emerging Languages and Programming Paradigms, Mobile Systems.		
VNR VJET	B.S: Computer Science and Business Systems	GPA: 3.67
Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Operating Systems, Computer Networks.		

## Skills

**Programming Languages:** Java, Python, JavaScript, SQL, HTML5, CSS3, PHP, C, C++, .Net  
**Tech Stack:** ReactJS, Spring Boot, React Native, PyCharm, Angular, Maven, Semantic Web, SPARQL, Owl.  
**Tools and Databases:** PL/SQL, MongoDB, Oracle SQL, Jenkins, Nginx, NodeJS, MS Office  
**DevOps:** Docker, Kubernetes, Amazon Web Services (AWS), Oracle Cloud, Postman, Junit, CI/CD, Azure  
**Data Management:** AWS CloudWatch, Dynatrace, Datadog, Splunk JSON, YAML, Git.  
**Soft Skills:** Collaboration, Scrum, Agile Methodology, Team Player, Problem Solving and Adaptability.

## Experience

- Associate Software Developer: June 2023– July 2024 JPMorgan Chase & Co

  - Modernized legacy applications by migrating them to React, Spring Boot, and AWS, replacing older tech stacks and Oracle Cloud, leading to significant improvement in system performance and 40% reduction in maintenance costs.
  - Implemented end-to-end testing with Cypress, contract testing using Pact Flow, and component testing with Cucumber, enhancing test coverage by 45% and reducing production defects by 30%.
  - Integrated Kafka for real-time message streaming between microservices, improving data processing speed by 50% and ensuring scalable communication across services.
  - Developed an AWS Lambda solution to deploy Cypress tests in Spinnaker, optimizing CI/CD pipelines and reducing deployment times by 25%.

Software Engineer Intern: May 2022 – July 2022 and Feb 2023 – May 2023 JPMorgan Chase & Co

  - Conducted unit and regression testing for high-end mainframe applications, ensuring system stability and reducing post-release defects.
  - Monitored critical applications using AWS CloudWatch and set up alarms for early failure detection, preventing 80% of potential production incidents.
  - Improved system uptime and performance by 30% by collaborating in an agile environment and enhancing operational monitoring mechanisms.

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## Projects

University Website Intent-Based Chatbot

Designed and implemented a high-accuracy multilingual chatbot for a university website, achieving 97% intent recognition accuracy. Integrated advanced Natural Language Processing (NLP) techniques to support both text and voice inputs, providing users with a seamless navigation experience. Utilized Recurrent Neural Networks (RNNs) to process user queries and dynamically redirect to frequently accessed pages, enhancing user engagement. Built with Python, JavaScript, TensorFlow, Keras, PyTorch, Flask, and various NLP libraries.

## COPD Detection

Led the development of a predictive model for assessing Chronic Obstructive Pulmonary Disease (COPD) severity, achieving 97% prediction accuracy. Employed deep learning algorithms (RNNs) to analyze patient symptoms and predict COPD risk. Designed and built a user-friendly front-end interface using React and TypeScript, while using Python, R, and Tableau for data analysis, model training, and visualization.

## Travel Planner Itinerary (Semantic Based)

Developed an intelligent travel planner itinerary tool using semantic web technologies (RDF, SPARQL) to offer personalized trip recommendations based on user preferences. Integrated ontologies and knowledge graphs to provide contextual and relevant travel options. Incorporated geospatial data and reasoning capabilities for accurate and optimized itineraries, showcasing the application of semantic web technologies in enhancing travel planning.

## Certifications

- AWS Certified Cloud Practitioner (CLF-C01) – AWS fundamentals, security, and best practices.
  - Google Data Analytics Professional Certificate – Data analysis, SQL, and visualization.