JAHNAVI REDDY

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SUMMARY

- Software Engineer with 3+ years of experience in full-stack development and AI-powered system design, contributing to recommendation engines, cloud-native platforms, and enterprise applications.
- Skilled in Java, Python, Node.js, React, Spring Boot, SQL, and distributed systems, developing scalable backend services, modern web applications, and real-time dashboards supporting millions of users.
- Proficient in deploying ML inference pipelines, recommendation systems, and data processing workflows using Tflex, Kafka, Redis, and SQL analytics to enhance engagement, performance, and automation.
- Experienced in CI/CD, Docker, Kubernetes, and cloud deployments.
- Adaptive to cross-functional collaboration in Agile environments, integrating engineering, product, and research requirements to deliver high-quality user-centric features.

TECHNICAL SKILLS

- **Languages:** Python, Java, C#, SQL, Swift, Java script, HTML, XML, CSS, Typescript, GO.
- **Technologies:** Node.js, Angular, React.js, Docker, NoSQL, JQuery, Figma, React Native.
- **Frameworks and Tools:** Spring Boot, Kafka, MySQL, AWS, Git,, CI/CD, .Net, D3.js, Hibernate, PostgreSQL.

WORK EXPERIENCE

UnitedHealth Group — United States
Software Engineer — *Dec 2024 to present*

- Automated healthcare claim validation using Python and REST APIs, reducing manual processing time and improving decision turnaround.
- Parsed and ingested scanned provider/member documents and business Excel/CSV files into internal SQL databases for rule-based claim adjudication.
- Enhanced production modules by debugging Python logic, implementing fallback conditions for API failures, and resolving data mismatches.
- Deployed updates to SSIS job servers via Azure Pipelines, with version control and peer-reviewed commits managed through Git/Bitbucket.

University of Florida — United States
Full Stack Developer — *July 2023 to May 2024*

- Developed and deployed a high-availability administrative dashboard using Java, Spring Boot and Hibernate, ensuring robust backend solutions that support business needs and improve operational efficiency.
- Enhanced front-end user interface with React.js, aligning with contemporary JavaScript frameworks and improving client-side experiences to create end-user-centric solutions.
- Implemented Continuous Integration and Continuous Deployment (CI/CD) pipelines using Jenkins; optimized Docker containerization strategies, achieving reduction in deployment-related downtimes.
- Leveraged the extensive functionalities of the D3.js framework to create comprehensive data visualizations based on shark attacks and geolocations, enhancing data insights and decision-making.
- Engaged in DevOps practices, agile development, and scrum ceremonies, fostering a collaborative and efficient development environment.

University of Florida — United States
Full Stack Developer(Unpaid) — *Jan 2023 to May 2023*

- Engineered a sophisticated web dashboard backend using Java and Spring MVC, integrating seamlessly with Kafka for real-time data streams and AWS S3 for scalable data storage.
- Crafted a responsive admin interface using HTML5, CSS3, React, and Material-UI, enhancing administrative functionalities and user interactions.
- Developed a real-time traffic monitoring system with Java, demonstrating the capability to handle complex data management tasks over distributed networks.

Fusion Software Solutions — India
Guidewire Software Developer — *Dec 2020 to Nov 2022*

- As a Guidewire configuration developer, I worked on ClaimCenter application, specializing in the implementation of PCFs, plug-ins, batch jobs, and other components within the Guidewire suite.
- Created widgets, and configured widget attributes like widget value and dropdown contents.
- Configured new screens for various functionalities like exposure creation, incident creation, and Financials.
- Built Business Rules in Pre-Setup, Post-Setup, Pre-Update, Transaction, and Validation rule sets as per business requirements.
- Extensively worked on relational databases such as Oracle DB and SQL server with hands-on experience in SQL Workbench.

Fusion Software Solutions   **India**

Software Developer Intern   *April 2020 to Aug 2020*

- Worked on end-to-end development of an online Insurance Management web application. Used HTML, CSS, and Java and integrated with Spring framework.
- Designed and implemented the database structure using MySQL, enabling efficient data storage and retrieval for insurance-related information.Collaborated with the team members to ensure project deadlines were met, and contributed to debugging and troubleshooting efforts.

EDUCATION

University of Florida   **Gainesville, FL**

MS in Computer Science Engineering   *Aug 2023 to Dec 2024*

PROJECTS

EShop

- Improved CRUD functionality in the application by enabling admins to add new products and allowing customers to order items. Achieved a server response time of less than 3000 ms through API gateway.
- Devised secure authentication in the EShop app using .Net, incorporating user access levels and a JWT-based authentication system.

UPSC Pre

- Created an android learning platform application using Python, Flask, and Elastic Search for students to prepare for the most competitive exams conducted by UPSC (Union Public Service Commission) of India while closely collaborating with 3 others.
- Achieved top ten ranking among UPSC-related applications on the Play Store. Currently, overseeing the expansion of the existing android app by introducing a web application component.

GatorShop

- Pioneered web application for University of Florida students, facilitating the discovery of affordable exclusive local shopping deals within the campus vicinity.
- Implemented app authentication flow by integrating JSON web tokens (JWT) with passport and passport-jwt packages. Established seamless integration between the app and an SQL database via APIs written in Golang.

Action Identification of Human 2D images using Transfer Learning

- Implemented the Deep Learning model to identify the type of action performed by the person using Computer Vision.
- The dataset used for Action Detection was Stanford 40 which has 9532 2D images with 40 different action classes.
- Analyzed the performance of Resnet 50, VGG16, VGG19, Efficient B7 and Inception V3 architectures in action prediction.
- Produced a research paper concluding that the Inception V3 was the most efficient algorithm with 72% accuracy.

Crowd Counting Using Convolutional Neural Networks (CNNs)

- Backend developer to design the code to count the number of persons in a crowd in a mall using Computer Vision.
- The idea involved counting the persons in the image by extracting features through CNNs in a regression model.
- The dataset consisted of 2000 images with labels in a NumPy file and the mean absolute error was minimized to 5.89.

Handwritten Symbols Recognition Using Convolutional Neural Networks (CNNs)

- Created Created the dataset using a total of 750 images for 25 classes and generated code to classify the 25 handwritten symbols.
- The handwritten symbols involved 25 different special characters where the features were extracted using CNNs.
- The accuracy in identifying the various classes of handwritten symbols was 92% in the classification model.

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- AWS Academy Graduate - AWS Academy Cloud Foundations
- Oracle Certified DevOps Professional
- Oracle Certified Multicloud architect Professional