Sai Vineeth Arumalla

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PROFESSIONAL EXPERIENCE

Bank Of America   **Jun 2024 - Present**
Software Engineer II   **Seattle, WA**

- Leveraged **Java, Spring**, and **OAuth** to build secure and scalable components for authentication,authorization, and tokenization modules.
- Designed & Developed **OAuth2** and **OIDC** functionalities, adhering to the RFC specs and Security Standards, enabling seamless integration across platforms and applications, currently serving over 10 million traffic daily.
- Contributed to the development and deployment of an **IVR system**, improving customer interaction.
- Leveraged **DAO (Data Access Object)** design patterns for seamless interaction with **Oracle SQL, PL/SQL, and Cassandra** databases, using Hibernate and JPA for efficient data management.
- Implemented **Kafka** to send real-time events such as customer consents and authentication data.
- Utilized **Splunk** extensively for debugging and monitoring, ensuring smooth integration of key services like **IVR, OAuth, and Customer federation**.
- Developed detailed test cases and leveraged **ALM** for tracking, uploading, and executing these test cases.
- Performed performance testing and engaged in drills for load testing, heap-dump analysis, server configuration, caching, and database replication to optimize system performance and reliability, achieving **25%** reduction in response time and over 5000 TPS in LLE testing.
- Created unit and integration tests to ensure end-to-end functionality, increasing code coverage to **85%** and reducing production issues by **20%**, significantly improving overall application reliability.
- Developed automation suites using **SOAP UI** and **Groovy Script**, delivering final scripts to the QAregression and cross-functional teams, reducing testing time by **50%.**
- Prepared Spikes with detailed implementation plans, knowledge transfer (KT) documents, process diagrams and wiki documentations.
- Collaborated with cross-functional teams to analyse project requirements, troubleshoot complex issues, and implement proactive solutions.

Accenture   **Jan 2021 – June 2022**
Software Engineer   **Hyderabad, India**

- Developed and maintained Java **Spring Boot** applications, focusing on backend functionality and **RESTful** API endpoints.
- Utilized authentication and authorization mechanisms such as **OAuth** and **JWT** to secure APIs and endpoints.
- Designed and developed microservices architecture using Spring Boot for enhanced scalability and modularity.
- Utilized **Spring Boot** and **Spring Cloud** for **microservices** development and deployment, benefiting from features like service discovery for robust architectures.
- Implemented API gateways like **Spring Cloud Gateway** for microservices routing and authentication.
- Optimized database queries and data access layers using **Spring Data JPA** for efficient data retrieval and manipulation.
- Created comprehensive unit and integration tests with **JUnit 5** and **Mockito**.
- Implemented logging and monitoring solutions using tools like **Log4j** and **Spring Boot Actuator** to track application performance and diagnose issues.
- Implemented security measures and best practices, ensuring compliance with industry standards and regulations through regular code scans and analysis with **SonarQube**.

Centuria Global Tax Services Private Limited, India   **Jan 2020 – Dec 2020**
Software Engineer Intern   **Hyderabad, India**

- Spearheaded the design and development of **AEM** templates and components, ensuring alignment with best practices and standards to facilitate efficient content management.
- Integrated **Adobe Experience Manager (AEM)** with **Single Page Applications (SPAs),** leveraging AEM's headless CMS capabilities to provide dynamic content delivery.
- Proficiently managed **OSGi** bundle deployment in AEM, while also demonstrating expertise in AEM functionalities like **Live copies** and **Rollout configurations**.
- Developed Java-based AEM **models** and **servlets** to optimize system performance.
- Collaborated with frontend developers to integrate **React** components and ensure seamless interaction between the frontend and backend layers.
- Demonstrated expertise in issue resolution and bug fixing, achieving a **97%** issue resolution rate to ensure a seamless experience for end-users.

SKILLS

Programming Languages: C, C++, Java, Python, GoLang
Web Development: SOAP and RESTful webservices, Servlets, JSP, JavaScript, jQuery, AJAX, React JS
Content Management Systems: AEM (Adobe Experience Manager) 6.5
Databases: Oracle, MySQL, Mongo DB, Cassandra
Frameworks/Tools: Maven, Junit, GIT, Tableau, Splunk, Hibernate, Spring MVC, Spring Boot, Spring JPA, Ansible, Jenkins, Data Integration, Docker, Kubernetes, OpenCV, PyTorch, scikit-learn, Keras, Tensorflow,Transformers, FAISS, Embedding-based semantic search, RAG (Retrieval-Augmented Generation), Gradio

EDUCATION

State University of New York at Buffalo   **Aug 2022 – Dec 2023**
Master of Science in Computer Science and Engineering   **Buffalo, NY, USA**

ACADEMIC PROJECTS

Personal AI Chatbot | Python, Transformers, Hugging Face, Gradio, FAISS   **Jul 2024 – Sept 2024**
- Deployed a conversational AI assistant capable of answering questions from a PDF resume with 93% successful retrieval of relevant answers.
- Implemented semantic search on PDF resume data using embeddings for accurate, context-aware Q&A.
- Built with Gradio for seamless user interaction and portable deployment across platforms.

Facial Spoof Detection with VGG16 | Python, VGG16, MTCNN, OpenCV, TensorFlow   **Jan 2023 – May 2023**
- Implemented robust face anti-spoofing module using VGG16 and MTCNN algorithm.
- Achieved impressive validation accuracy of 99.55% on NUAA dataset and 92% on LCC FASD dataset.
- Performed live testing of real and spoof images to evaluate the face anti-spoofing module.

Biometric Authentication Systems | Python, face_recognition, Faster R-CNN, OpenCV, TensorFlow   **Jan 2023 – Feb 2023**
- Created facial recognition (using face_recognition) & fingerprint verification systems (Faster R-CNN).
- Evaluated both systems using F1 score, Intersection over Union (IoU), and Accuracy metrics.

CERTIFICATIONS & AWARDS

AWS Certified Cloud Practitioner & Solutions Architect – Associate   **Jan 2024**

IChamp Award   **Feb 2022**
- Received an award for exceptional adaptability and expediting project deliveries.