Sai Vineeth Arumalla

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PROFESSIONAL EXPERIENCE

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

- Contributed to the development and deployment of an **IVR system**, improving customer interaction efficiency using technologies like Java, Spring Framework, and RESTful APIs.
- Successfully implemented **OAuth2** for managing user authentication, consents, and revocations, enhancing the security and user experience of the application.
- 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.
- Used tools like **Jenkins, Bitbucket, and Ansible** to streamline CI/CD pipelines and automate deployment processes, improving operational efficiency.
- 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**.
- 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.

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
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

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

Facial Spoof Detection with VGG16　　　　　　　　　　　　　　　　　**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.

Text Chat Application　　　　　　　　　　　　　　　　　　　　　　**Feb 2023 – May 2023**
- Designed a server-based chat application in C++ for client messaging.

Biometric Authentication Systems　　　　　　　　　　　　　　　　　**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　　　　　　**January 2024**

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