Kaustubh Deokar

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Experience

Siemens Digital Industries Software, Hyderabad, IN

Lead Software Engineer **Jan 2025 – Present**
- **Token Authentication:** Architected and implemented secure Single Sign-On (SSO) solution migrating from legacy encrypted credential transmission JWT-based authorization via code challenge while maintaining latency of $<1s$.

Associate Lead Software Engineer **Jan 2023 – Dec 2024**
- **OAuth 2.0:** Integrated OAuth authorization support across three product suites, using dockerized Keycloak for validation/testing.
- **Licensing:** Implemented a centralized licensing approach for three suites, replacing fragmented methods. Integrated a piracy reporting toolkit, resulting in a 20% increase in the identification and reporting of piracy incidents.

Senior Software Engineer **Jan 2022–Dec 2022**
- **Auto-update:** Led the migration from a legacy messaging queue - ActiveMQ to Apache Artemis MQ for rolling out user updates. Accelerated throughput by 30%, improving extensibility with protocol support for future client integrations.
- **Led Cross-Suite Product Rebranding Initiative:** Architected and implemented full-stack rebranding across 3 major product suites impacting 100% end-users. Delivered critical components including: automated DB schema migrations for 3 suites, modernized object model architecture, and unified Ribbon UI framework adopted by 20+ products.

Software Engineer **July 2020 – Dec 2021**
- **Security:** Restructuring access to entities based on a framework level. Includes modifying legacy code over 10+ years.
- Writing **unit and integration tests** improving code branch coverage for user management product from 55% to $> 90\%$.
- **Managing and re-structuring** software deployment for on-premises platforms for 4 monolith products using Gradle, Jenkins pipelines and 3rd party software Revenera.

Software Engineer - Intern **Dec 2019–Jun 2020**
- Enhanced an existing automation framework by adding functionality to capture and serialize requests/responses. Developed a process to deserialize these request/response files and batch run over 100 sessions for stress testing the tool. Utilized a load balancer framework to evaluate request distribution and determine the tool's load-handling capacity.

Skills

Programming Languages: Java, Python, C++, JavaScript
Frameworks/Libraries: Spring Boot, FastAPI, JUnit, ReactJs, REST, gRPC
Tools and Technologies: NodeJS, Docker, Kubernetes, AWS, ActiveMQ, RabbitMQ, AWS, Postman, Git
Databases: PostgreSQL, MongoDB, Redis, S3   **Build Tools:** Gradle, Maven, CMake

Projects

Hacktoberfest Open Source Contribution, TechNexus
- Integrated open-source Leaflet Maps library for discovering nearby tech events. Search nearest events, filtering using spatial indexing.
- Technologies: NodeJs, ReactJS, PostgreSQL, PostGIS

OmniHRM - Human Resource Management Tool Git Youtube Live Deployment DigitalOcean
- Developed an app with attendance/leave management, task tracking, geo location tracking with goal/kpi setting. CI/CD via GitHub Actions, deployed - Digital Ocean. Technologies: MongoDB, Spring Boot, ReactJS, Docker, GitHub Actions, Digital Ocean

Blogging Site Project Link
- Designed an app with topics and posts management, user subscriptions, voting, auth and scalable comment storage in MongoDB.
- Technologies: Spring Boot, ReactJS, MySQL, MongoDB, and Docker.

Education

Vellore Institute of Technology, Vellore **TamilNadu, India**
B.Tech, Computer Science and Engineering - **9.03/10** **2016–2020**

Accomplishments / Links

Cloud Certification : AWS Cloud Practitioner
Paper presentation at Siemens Internal Technical Conference 2021: Developing Framework for Stress Testing the software.
Recipient of VIT Annual Scholarship, for securing AIR rank under 5k and maintaining excellent academic performance at VIT Vellore.
Medium Youtube Twitter