SIVASANKARAN KALEESWARAN

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EXPERIENCED SOFTWARE ENGINEER | AWS CERTIFIED SOLUTIONS ARCHITECT (SAA-C03) | PROFICIENT IN JAVA, SPRING BOOT, REACT, NODE JS & AWS

EDUCATION

Pace University, Seidenberg School of Computer Science & Information Systems New York, NY
Master of Science in Computer Science | Concentration: Software Engineering | GPA: 4.0/4.0 December 2024

Amrita University Coimbatore, India
Bachelor of Technology (BTech) in Electronics & Communication Engineering April 2019

EXPERIENCE

Software Development Engineer Intern, *Keeper AI, New York, NY.* January 2024 – June 2024
- Reduced initial load times by **12%** in a React JS application using **React Lazy & Suspense**, enhancing user experience & efficiency; managed state with Redux and improved project tracking using Jira.
- Crafted and deployed a comment and like feature for posts using React JS, coupled with **Firebase** for real-time data writing & updates, enhancing user engagement and interactive experiences.
- Implemented **OAuth** based **Google & Microsoft Single Sign-On (SSO)** within a React & Firebase environment, optimizing login processes & boosting user adoption by **27%.**

Senior Software Engineer, *Tata Consultancy Service LTD, Chennai, India.* September 2019 – January 2023
- Spearheaded the **end-to-end Software Development Life Cycle (SDLC)** for **enterprise applications** using React, Java, Node.js, and Spring Boot, integrating CI/CD pipelines with Docker, Jenkins, and Kubernetes, and was recognized organizationally for commitment to values.
- Designed and facilitated a scalable production monitoring solution with **Spring Data JPA** & **Spring Boot Actuator**, slashing downtime by **91%** through effective real-time alerts, thereby enhancing system reliability and operational efficiency.
- Architected a Java microservices dashboard with **Spring Boot**, **Spring Cloud,** and **Kafka**, enabling asynchronous server monitoring and reducing manual tasks by **72%**, while enhancing concurrency through multithreading to optimize performance.
- Engineered a **Node.js** Rest API endpoint with **Bash** scripting to **fetch Outlook email** updates on working hours and store locations, enhancing an IVR microservice, and achieving **top 5%** impact among **70+ deployed** features.
- Enhanced a read-heavy application by integrating **Redis caching** into a PostgreSQL, utilizing advanced Data Structures and Algorithms for data retrieval and management, resulting in a **40%** reduction in server-side response times.
- Devised an application feature using Spring Web Client to connect with **BMC Remedy & ServiceNow API's**, monitor ticket queues, process long-standing tickets, and send alerts via **Spring Mail**, improving workflow efficiency by **39%**.
- Implemented an automated user management feature using **Spring Data JPA** to revoke access for inactive users, enhancing application security and reducing manual workload by **53%**.

PROJECTS

Whisk & Drizzle *(React JS, Spring Boot, Microservice, Redis, Kafka, MongoDB)* September 2024 – October 2024
- Directed the development of a microservice cake selling site using Spring Boot and React JS, integrating **Netflix Eureka** for service discovery, and improving request handling efficiency through **API Gateway**, achieving a **22%** performance boost.
- Established robust authentication and authorization using **Keycloak**, coupled with **Resilience4j** for **fault tolerance**; configured centralized logging with **ELK** stack to monitor system behavior, aiding in quick debugging and system analysis.
- Initiated **Redis** integration for caching, enhancing data retrieval; utilized **Kafka** for async communication between services.

Social Media Application *(MERN Stack, OpenAI, Jenkins & Docker)* January 2024 – February 2024
- Led a team of 5 in developing a MERN stack-based social media application, leveraging **Agile Development** and integrating OpenAI to generate personalized text and images.
- Orchestrated the integration of Amazon Web Service **AWS S3** for secure and scalable media storage, along with **Single Sign-On (SSO)** for robust user authentication, ensuring both data integrity and privacy.
- Leveraged **Redux** for state management and **MUI** for responsive design, focusing on delivering a seamless user interface.

CERTIFICATIONS
- AWS Certified Solutions Architect – Associate.
- Full-Stack Web Development Boot Camp: Udemy

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, Bash (Shell scripting), Groovy, C++, Go, Node.JS, C, Typescript, Kotlin, Scala.
Frameworks: Spring Boot, React JS, Spring MVC, Spring Data JPA, Junit, AngularJS, jQuery, Hibernate, Jest, Selenium, Pandas.
Tools: Kubernetes, Redis, Zookeeper, Kafka, Git, Linux, Elasticsearch, Terraform, Jenkins, Spark, Airflow, Databricks, SnowFlake.
Web Technologies/ DevOps: AWS (IAM, EC2, Lambda, S3, VPC), Azure, Docker, Django, Flask, Vue, Splunk, Openshift, CI/CD.
Databases (SQL/ NoSQL): MySQL, PostgreSQL, MongoDB, DynamoDB, Aurora, Cassandra, Hadoop, Hive, Oracle, MS SQL Database .