AVINASH SAMUDRALA

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EXPERIENCE

Oracle Corporation, Hyderabad, India

Senior Applications Engineer   **Sep 2024 – Present**
- Enhanced performance of RESTful APIs architected with ADF-BC, reducing average response time by 20%, which improved system throughput and scaled down client-side latency in key Oracle Cloud modules.
- Spearheaded the integration of the Business Rules framework with cross-functional teams, allowing customers to define custom validation and defaulting rules at runtime—adopted by multiple Fortune 500 customers.
- Mentored and onboarded 5+ new engineers, standardizing development workflows and increasing team productivity by 15%.
- Redesigned monolithic systems into fault-isolated microservices, reducing incident resolution time by 20% via independent rollbacks.
- Identified and resolved bottlenecks in API communication layers, leading to a 10% improvement in end-user performance metrics across supported applications.

Applications Engineer   **Jul 2022 – Aug 2024**
- Led migration of Oracle's HCM workflows from legacy ADF-based stack to modern VBCS-based UI/services, reducing feature release time by 30% and improving user satisfaction scores by 18%.
- Built and maintained robust ADF-BC REST APIs for Oracle GHR Person modules, processing over 100,000+ monthly HR transactions across global clients.
- Applied SOA and microservice principles to reengineer core services, resulting in a 40% reduction in backend failures and 99.9% uptime for critical HR systems.
- Collaborated cross-functionally with frontend, QA, and DevOps teams to ensure seamless rollout of features impacting 20+ Oracle clients worldwide.
- Integrated logging and monitoring mechanisms that improved system diagnostics and streamlined the average resolution time of bugs by 35%.

Student Intern   **May 2021 – Jul 2021**
- Developed and deployed Spring Boot-based microservices for EZML, Oracle Cloud Infrastructure's ML automation platform, reducing manual setup efforts by 60% for internal data science teams.
- Designed APIs using Apiary and implemented object-oriented design patterns to boost modularity and code reuse across 3+ OCI components.
- Facilitated a team-wide code refactoring effort, improving code quality and coverage by 25%, and ensuring long-term maintainability.
- Coordinated in agile sprints, presenting weekly demos to stakeholders, and improving feedback integration speed by 20%.

SKILLS

- **Programming Languages:** C, C++, Java, Python, JavaScript, TypeScript, PHP, Bash, SQL
- **Frontend Technologies:** ReactJS, NextJS, HTML5, CSS3, Oracle Visual Builder Cloud Service (VBCS)
- **Backend & Frameworks:** Spring Boot, NodeJS, ExpressJS, ADF-BC (Application Development Framework – Business Components)
- **Databases**: MySQL, MongoDB, Oracle Database (PL/SQL)
- **DevOps & CI/CD Tools:** Docker, Git, Oracle Cloud Infrastructure (OCI)
- **Architecture & Concepts:** RESTful APIs, Microservices, Service-Oriented Architecture (SOA), Socket Programming, MVC
- **Operating Systems & Networking:** Linux (Ubuntu/CentOS), Shell Scripting, Computer Networks, TCP/IP
- **Project & Collaboration Tools:** Agile, Jira, GitHub, Confluence

EDUCATION

National Institute of Technology, Calicut   **Jul 2018 – May 2022**
Bachelor of Technology in Computer Science and Engineering || **CGPA:** 8.17/10

PROJECT HIGHLIGHTS

Hostel Management System
Tech Stack: PHP, MySQL, JavaScript
- Devised a full-stack hostel management web app for 300+ students, supporting room allocation, peer room requests, and complaint resolution.
- Integrated AES-encrypted authentication and role-based access control, enhancing data security and user management.
- Programmed an admin dashboard to automate complaint handling, reducing manual processing time by 50%.

React Projects
Tech Stack: ReactJS, Firebase, TypeScript, REST APIs
- **Viflix:** Constructed a Netflix-style streaming app with Firebase-backed authentication, real-time content loading, and modular component structure; reduced page load times by 35%.
- **Vi-Weather:** Created a responsive weather forecasting app using live REST API data; supports real-time location-based updates with a clean UX/UI design.

LEADERSHIP & VOLUNTEERING

Technical Affairs Secretary – Students' Affairs Council, NIT Calicut
- Advocated for 3000+ students, implementing academic reforms and welfare initiatives in coordination with faculty and administration.
- Led the execution of Tathva, NITC's flagship techfest, with 50,000+ attendees, managing technical operations, budgeting, and sponsor coordination.
- Orchestrated logistics with 20+ cross-functional teams, ensuring smooth delivery of 100+ events and workshops.

Assistant Secretary – Club Mathematica, NIT Calicut
- Managed Infinitum, a nationwide mental ability quiz with 22,000+ participants from classes 8–12 across India.
- Trained and supervised 35+ junior members, building a self-sustaining team for future event operations.

Technical Volunteer & Developer
- Delivered technical seminars on Flutter and ReactJS for 150+ junior students, enhancing hands-on learning.
- Configured educational apps as a volunteer developer for Thinktac during sophomore year, supporting experiential learning for school students.