

Hari Ramakrishna Chanamolu

mail2hrk29@gmail.com / 513-512-8620 / Austin, TX



Professional Summary :

Innovative and results-driven Java Developer with ~5 years of experience architecting and delivering scalable, secure, and cloud-native applications across diverse enterprise environments. Adept at designing event-driven microservice architectures with Spring Boot & Kafka , building accessible, responsive user interfaces with React.js, and integrating a wide range of third-party APIs (both REST and SOAP). Proficient in the full software development lifecycle, from translating Figma designs into functional components to deploying and monitoring resilient systems on AWS cloud. Strong collaborator in Agile/Scrum environments with a focus on performance optimization, robust security using JWT and OAuth 2.0 , and comprehensive test automation.

Core Competencies :

- **Backend Development** : **Java (11/17) , Spring Boot , Spring Security , Spring MVC , Microservices, Spring Data JPA , Hibernate**
 - **Frontend Development** : **React.js , Next.js , JavaScript (ES6+) , Redux , Axios , HTML5 , CSS3 , WCAG Accessibility**
 - **Cloud & DevOps** : **AWS (ECS Fargate, EKS, Lambda, S3, RDS, CloudFront) , Docker , Kubernetes , Helm , CI/CD, Jenkins , GitHub Actions , Maven**
 - **Databases &** : **PostgreSQL , MySQL**
 - **API Technologies** : **REST APIs, SOAP, WSDL, Swagger**
 - **Messaging & Streaming** : **Apache Kafka, Event-Driven Architecture**
 - **Testing & Automation** : **JUnit , Mockito , REST Assured , Testcontainers, Selenium WebDriver**
 - **Monitoring & Observability** : **Prometheus , Grafana , Splunk , ELK Stack , Spring Actuator**
 - **Security & Authentication** : **JWT , OAuth 2.0 , Keycloak, Role-Based Access Control (RBAC)**
 - **Project Management & Collaboration** : **Agile/Scrum , Jira , Confluence, GitFlow**
-

Professional Experience:

Full Stack Java Developer | **Dell technologies** | **August 2023 – October 2025** | **Austin, TX**

Project: CVE Tracking & Vulnerability Management

Project Description:

Developed a **cloud-based platform** to track and manage software security vulnerabilities across the software development lifecycle. The platform integrates **automated security scans** and provides **intuitive triage workflows** for efficiently analyzing and handling vulnerabilities. It includes tools to **ensure only secure releases** are deployed, giving **security teams, developers, and release managers** **real-time visibility** into risks. By streamlining vulnerability management and remediation, the platform enables teams to **quickly address security issues** and maintain a strong security posture throughout development.

Technology Stack: Java | Spring Boot | React.js | Next.js | PostgreSQL | Docker | Kubernetes | Helm | Prometheus | Grafana | ELK Stack

Role: Full Stack Developer

- Engineered a suite of backend microservices (Scan Orchestrator, Vulnerability Management, Reporting Service) using **Java 21 & Spring Boot** to handle **CVE** data ingestion, complex triage workflows, and vulnerability management logic.
 - Designed and exposed secure **REST APIs**, documenting all endpoints with **Swagger** for seamless consumption by frontend clients and external systems.
 - Developed a dynamic, responsive frontend with **React.js** and **Next.js**, building reusable components for features like an Interactive Triage Workflow and a Visual Policy Editor.
 - Managed complex application state on the frontend using **Redux** and handled asynchronous API communication with **Axios** to populate dynamic user dashboards.
 - Integrated automated security scanning tools like **Trivy** and **Grype**, leveraging **Spring Batch** for efficient asynchronous processing of **JSON** scan outputs into structured data for the platform.
 - Implemented robust, **role-based access control (RBAC)** across the application stack using **Keycloak** for authentication and authorization of all frontend and microservice interactions.
 - Collaborated with UX/UI teams to translate **Figma** mockups into pixel-perfect, accessible frontend components, ensuring adherence to **WCAG 2.1** standards for usability.
 - Established and enforced **GitFlow** branching strategies and maintained high code quality through mandatory pull request reviews, peer programming sessions, and **static code analysis** tools.
 - Containerized all services using **Docker** and created comprehensive **Helm charts** for simplified orchestration on **Kubernetes**, implementing **liveness/readiness probes** and **ConfigMaps** for scalable service management.
 - Designed and optimized **PostgreSQL** database schemas, writing and tuning complex **SQL** queries and managing schema migrations with **Flyway** to ensure consistency across environments.
 - Architected a centralized observability stack using **Prometheus & Grafana** for real-time metrics, the **ELK Stack** for aggregated logging, and **Spring Actuator** for service health endpoints.
 - Built and maintained comprehensive **CI/CD pipelines** using **GitHub Actions** and **Maven** for automated builds, dependency management, and security scanning, enabling repeatable deployments.
 - Actively participated in all **Agile Scrum** ceremonies, including sprint planning, daily stand-ups, and retrospectives, using **Jira** for task tracking and **Confluence** for documentation.
-

Software Developer || Paycom || Aug 2022 – Jul 2023 || Remote

Project: Real-Time Workday Integration using Kafka & Microservices

Project Description:

Built a **real-time employee data integration platform** to replace legacy polling-based systems. The solution ingests events from **Workday (HCM)** and streams them through **Apache Kafka** to downstream microservices for processing and synchronization. This **event-driven architecture** eliminated batch latency, improved data consistency, and enabled responsive workflows. By providing **real-time visibility into employee data changes** such as new hires, terminations, and role updates, the platform streamlined HR integrations, reduced synchronization errors, and enhanced reliability across business applications.

Technology Stack: Java 17 | Spring Boot | Apache Kafka | MySQL | PostgreSQL | Docker | (AWS: ECS Fargate, EKS, RDS, Lambda, CloudFront) | Prometheus | Grafana

Role: Java Developer

- Designed and implemented a real-time, **event-driven platform** to integrate **Workday** employee lifecycle events (hires, updates, terminations) with internal **Paycom** systems.
 - Architected a solution that replaced legacy **cron-based polling** with low-latency **Apache Kafka** streaming, significantly improving data synchronization timeliness and reducing redundant API calls to source systems.
 - Developed a critical **middleware service** to receive **Workday webhooks**, validate and enrich event payloads, and publish them to **Apache Kafka topics** with correct **partitioning** to guarantee ordered processing.
 - Engineered several downstream **microservices** (EmployeeService, PayrollService, AccessControlService) to consume **Kafka events** with **idempotent logic**, ensuring data consistency and preventing duplicate processing even during message retries.
 - Integrated legacy enterprise systems using **SOAP web services**, consuming and producing **WSDL-based contracts** to ensure seamless data exchange for critical HR workflows.
 - Managed data persistence using **Spring Data JPA** and **Hibernate**, leveraging **AWS RDS** for both **MySQL** (transactional data) and **PostgreSQL** (structured data).
 - Authored advanced integration tests using **REST Assured** and **Testcontainers**, which spun up real dependencies in **Docker** containers to validate microservice interactions and achieve over 90% test coverage.
 - Optimized **JPA/Hibernate performance** by analyzing **query execution plans**, fine-tuning **fetching strategies**, and implementing a **second-level (L2) cache**, which reduced database latency for key services by over 25%.
 - Deployed scalable microservices on **AWS** using both **ECS Fargate** and **EKS**. Utilized other **AWS services** including **Lambda** for serverless ingestion and **CloudFront** for caching static assets.
 - Implemented comprehensive system reliability and monitoring using **Kafka retries**, **Dead Letter Queues (DLQs)** for failed message handling, **Prometheus & Grafana** for real-time dashboards, and **Splunk** for log inspection and alerting.
 - Automated the entire **CI/CD** process using a **Jenkinsfile pipeline**, with source control managed via **Git/GitHub**, ensuring rapid, secure, and consistent deployments to the cloud environment.
-

Software Test Engineer | Qualitrix Technologies | Oct 2019 – Aug 2021 | Remote

Project: Trust and Safety

Project Description:

Trust and Safety is a project which provides safety on users data or details and we maintain the flow of content to segregate in particular queues. Need to check whether **every queue** has volume and need to check the queues are accessible to all the raters or not, suspending the bad accounts from the database and ensure that all the advertisers follow the guidelines, reviewing the advertiser's accounts for spam reduction.

Technology Stack: Manual testing (Test Case Design, Test Execution, Bug Tracking, Test Reporting) | Selenium WebDriver | Maven | Jenkins | Selenium Grid | JIRA

Role: Software Tester

- Preparing **Test Cases** based on product Detailed Design Specifications and creating **Test Data** for execution.
- Performing **Positive and Negative Testing** to verify functionality.
- Identifying **Regression Test Cases** and executing regression plans.
- **Defect Tracking** and **Bug Reporting** using **JIRA**.
- Conducting **Compatibility Testing** across various operating systems and browsers to ensure consistent functionality.
- Involved in **Functional, Integration, and Regression Testing** of the application.
- Reviewing workflows with selected internal tools to maintain reliability of the **Google network** for users.
- Identifying patterns in workflow and suggesting solutions to enhance support processes.
- Developing **Automation Test Scripts** using **Selenium WebDriver** with **Java**.
- Adding reusable functions to the **automation framework** based on modules.
- Developing automation scripts for regression testing using **Page Object Model (POM)** with **Hybrid Framework** in **Maven**.

Education

Master's in Information Science | GPA: 3.8 | Aug 2021 – May 2023

Bachelor's in Electronics & Communication Engineering | CGPA: 7.0 | Jun 2016 – May 2020