

# Hari Ramakrishna Chanamolu

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Portfolio : <https://hrk-portfolio.onrender.com/>

## Professional Summary :

- Full Stack Java Developer with over 5 years of experience in the **design, development, integration, and deployment** of **cloud-native applications** across **Cybersecurity , Fintech , and Human Capital Management (HCM)** domains.
- Expertise in **Core Java (11/17/21) , OOP concepts, and Collections** , including the **Spring Ecosystem—Spring Boot, Spring Cloud (Eureka, Gateway, Config Server) , Spring Security, and Spring Data JPA**—following **Agile methodologies**.
- Advanced experience designing **event-driven Microservices & SOA architectures** with **Apache Kafka** to handle **real-time data ingestion** and complex **security triage workflows**.
- Proven track record of building **responsive, user-centric interfaces** using **React.js , TypeScript , and Next.js** , ensuring 100% adherence to **WCAG 2.1 standards** for enterprise usability.
- Deep technical knowledge in implementing **robust security frameworks**, including **JWT, OAuth 2.0 , Keycloak , and Role-Based Access Control (RBAC)** , ensuring compliance with **GDPR and PCI DSS standards**.
- Proficient in **Cloud & DevOps orchestration**, leveraging **AWS (EKS, ECS Fargate, Lambda, S3, RDS) , Docker , Kubernetes , and Helm** for scalable service management.
- Expertise in establishing **automated CI/CD pipelines** using **GitHub Actions , Jenkins , and Maven** while enforcing code quality through **SonarQube**.
- Strong focus on **system observability and reliability** using **Prometheus, Grafana , Splunk , ELK Stack , and Spring Actuator** to detect runtime anomalies.
- Collaborative leader in **Agile/Scrum environments**, managing code quality via **GitFlow branching strategies , mandatory peer code reviews , and mentoring junior developers in sprint planning**.

## Core Competencies :

- Backend Development : Java (11/17/21) , Spring Boot , Spring Security , Spring MVC , Spring Core, Spring Batch, Python.
- ORM : Hibernate, JPA, Spring Data JPA, Spring JDBC
- Frontend Development : React.js, Angular.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 , Oracle, MongoDB, Redis
  - **API Technologies** : REST APIs, SOAP, WSDL, Swagger UI, Postman
  - **Messaging & Streaming** : Apache Kafka, Rabbit MQ, Active MQ
  - **Testing & Automation** : JUnit , Mockito , REST Assured , Testcontainers, Selenium WebDriver
  - **Monitoring & Observability** : Prometheus , Grafana , Splunk ,Log 4j, Slf4J, ELK Stack , Spring Actuator
  - **Security & Authentication** : JWT , OAuth 2.0 , Keycloak, Role-Based Access Control (RBAC)
  - **Project Management & Collaboration** : Agile/Scrum , Jira , Confluence, GitFlow
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## ***Professional Experience:***

**Full Stack Java Developer| Dell technologies| August 2023 – December 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 17/21 | Spring Boot| Spring Cloud (Eureka, Gateway, Config) | React.js | Next.js | Redux| PostgreSQL | Docker | Kubernetes | Helm | Prometheus | Grafana | ELK Stack| SonarQube | Grafana

### ***Role: Full Stack Developer***

- **Led the end-to-end design and development** of a cloud-native **Common Vulnerability Management Platform** using **Java 21, Spring Boot, and React.js**.
- **Architected a suite of microservices**, including Scan Orchestrator and Identity & Access, using **Spring Cloud (Eureka, Gateway, Config Server)** for service discovery and centralized configuration.
- **Engineered high-performance REST APIs** documented with **Swagger/OpenAPI**, allowing seamless integration between vulnerability ingestion and triage workflows.
- **Implemented robust security layers** using **Spring Security, JWT, and Keycloak** to enforce **Role-Based Access Control (RBAC)** across sensitive security APIs.

- Developed a dynamic, responsive frontend using **Next.js** and **TypeScript**, translating **Figma** mockups into pixel-perfect components.
  - Managed complex application state on the frontend using **Redux Toolkit** and handled asynchronous data fetching with **Axios** for real-time dashboards.
  - Enforced accessibility and security standards, ensuring 100% adherence to **WCAG 2.1** and **OWASP Top 10** for enterprise-grade deployments.
  - Integrated automated security scanners (Trivy, Gype) using **Spring Batch** for asynchronous processing of large-scale **JSON** scan outputs.
  - Designed and optimized PostgreSQL schemas, writing complex **SQL** queries and managing migrations with **Flyway** for data consistency.
  - Containerized the entire ecosystem using **Docker** and created **Helm charts** for automated orchestration on **Kubernetes (EKS)**.
  - Established centralized observability by configuring **Prometheus** for metrics, **Grafana** for visualizations, and the **ELK Stack** for distributed logging.
  - Automated CI/CD pipelines using **GitHub Actions** and **Maven**, integrating **SonarQube** for mandatory static code analysis.
  - Visualized security trends by building custom charts (Donut, Bar) in **React** to display vulnerability severity and triage progress.
  - Facilitated Agile Scrum ceremonies, managing tasks in **Jira**, documenting technical specs in **Confluence**, and conducting peer code reviews
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## **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 | Jenkins | Redis | Docker | (AWS: ECS Fargate, EKS, RDS, Lambda, CloudFront) | Prometheus | Grafana | Junit | Mockito | Karma | Jasmine.

#### **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 a legacy **cron-based polling** system—which had a **15-minute synchronization latency**—with low-latency **Apache Kafka** streaming .

- Developed a critical middleware service on **AWS Lambda** to receive **Workday webhooks** via **Amazon API Gateway**, eliminating the need for redundant API calls .
  - Integrated **Amazon CloudFront** as a CDN to reduce **Lambda cold-start latency** and improve the reliability of global webhook delivery .
  - Secured the integration pipeline by authenticating payloads via **OAuth 2.0** and implementing **least-privilege AWS IAM roles** for all serverless functions .
  - Engineered high-performance **Kafka Producers** using **Spring Kafka**, utilizing **employee IDs as partition keys** to guarantee strict event ordering .
  - Developed three specific downstream microservices—**EmployeeService**, **PayrollService**, and **AccessControlService**—to process events with **idempotent logic**.
  - Managed complex data persistence using **Spring Data JPA** and **Hibernate**, leveraging **AWS RDS** for both **MySQL** (transactional) and **PostgreSQL** (structured) data.
  - Optimized database performance by analyzing query execution plans and implementing a **second-level (L2) cache**, reducing latency for core services by **over 25%**.
  - Integrated legacy enterprise systems by consuming and producing **SOAP web services** and **WSDL-based contracts** for critical HR and payroll workflows.
  - Established a fault-tolerant messaging system using **Kafka retries** and **Dead Letter Queues (DLQs)** to ensure zero data loss during synchronization errors.
  - Authored advanced integration tests using **REST Assured** and **Test containers**, spinning up real dependencies in **Docker** to achieve **over 90% test coverage**.
  - Configured comprehensive system monitoring using **Prometheus**, **Grafana**, and **Splunk** for real-time dashboards and centralized log inspection.
  - Automated the cloud deployment lifecycle using a **Jenkins file pipeline**, delivering containerized services to **AWS ECS Fargate** and **EKS**
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## **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**.
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## **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**