

Silvia Raju Marihal

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PROFESSIONAL SUMMARY

Software Engineer with experience building developer platforms and infrastructure tooling, specializing in Java, React/TypeScript, Spring Boot, PHP (Ent), GraphQL, and Python. Focused on designing scalable systems and LLM-assisted, agentic workflows that automate developer operations, improve reliability, and reduce manual effort.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, Rust, Ruby, TypeScript, JavaScript (ES6+), PHP (Hack/Ent), C++
- **AI / LLM & Agentic Systems:** LLM-assisted workflows and Agentic automation pipelines,
- **Front-End Development:** React, Redux, TypeScript, JavaScript (ES6+), Vue.js
- **UI/UX & Performance:** Responsive Design, Web Accessibility, UI/UX Best Practices, State Management (Redux)
- **Backend & APIs:** Spring Boot, RESTful APIs, GraphQL, OAuth, JWT, Authentication & Authorization, Microservices Architecture
- **DevOps & Cloud:** AWS, Docker, Kubernetes, Jenkins, CI/CD Pipelines, Terraform
- **Testing & Debugging:** JUnit, Mockito, Postman, Cypress, Selenium WebDriver
- **Version Control & Tools:** Git, Bitbucket, GitLab, Webpack, Babel
- **Specialties:** Developer environment automation, interoperability of connected devices, secure API design, cloud-native solutions

EXPERIENCE

AUGUST 2023 – PRESENT

Sigma Connectivity, Carlsbad, CA – *Software Engineer*

Client project: Meta

- Architected and automated Windows Developer Environment setup using Chef, Chocolatey, and RL CLI, reducing developer onboarding time by 40% and improving build reproducibility for Horizon Social VR projects.
- Designed and implemented an agentic workflow for automated issue intake using a two-stage LLM-assisted triage pipeline, combining keyword-based filtering with MetaGen (LLM) semantic analysis to classify, prioritize, and route Windows developer environment issues from Workplace into automated task workflows.
- Built and maintained internal full-stack OKR and SLA management tools using React, TypeScript, GraphQL, Hack/PHP, and JavaScript, including date-range filtering, team selectors, and data visualization dashboards powered by HighCharts and Scuba.
- Developed scalable, accessible React applications optimized for cross-browser compatibility, performance, and long-term maintainability in a large internal platform ecosystem.
- Partnered closely with backend and infrastructure teams to improve API performance, SLA instrumentation, and telemetry pipelines, reducing response times by 30% and improving system observability.
- Wrote Python automation scripts to streamline developer workflows, validate data pipelines, and integrate metrics into dashboards; deployed and operated these services on AWS-based infrastructure.
- Actively collaborated in Agile Scrum teams, participating in sprint planning, standups, retrospectives, and technical design reviews, while tracking work and documentation through Jira and Confluence.

SEPTEMBER 2022 – JULY 2023

XIFIN, San Diego, CA – *Software Engineer*

- Developed and maintained backend services using Java Spring Boot within a microservices architecture to support healthcare revenue cycle management workflows
- Designed and optimized RESTful APIs in Java for secure and efficient communication across distributed services
- Worked with a MySQL database, implementing indexing and query optimization strategies to improve performance and scalability for high-volume healthcare data
- Enhanced the Client Statements Engine for billing statement generation and distribution by introducing asynchronous batch processing and database tuning to reduce processing time
- Collaborated with frontend teams by integrating backend APIs with React-based applications, reducing load times while ensuring WCAG 2.1 accessibility compliance
- Increased automated test coverage to 95 percent with Jest, React Testing Library, and Cypress, while supporting DevOps pipelines using AWS, Docker, and Kubernetes

APRIL 2021 – SEPTEMBER 2022

RingCentral, Belmont, CA – *Software Engineer*

- Contributed to the Media Redirection SDK and Web Adapter-Desktop/VDI integrations using TypeScript, React.js, and sip.js, enabling high-performance communications in Citrix and VMware environments
- Implemented embedded browser functionality using Chromium Embedded Framework (CEF) in C++ for third-party application interoperability
- Developed backend microservices with Java and Spring Boot to support scalable and fault-tolerant webphone integrations for Linux and Virtual Desktop Environments

- Designed API endpoints in Java for real-time call handling, authentication, and session management, ensuring secure and reliable communication flows
- Participated in Agile development and advocated for test-driven development by creating focused unit tests to isolate and resolve complex issues

JANUARY 2021 – APRIL 2021

RingCentral, Fort Lauderdale, FL – *Junior Front-End Engineer Intern*

- Enhanced the RingCentral application by adding the - add note to note results page feature using React, TypeScript, and React.js.
- Implemented a comprehensive tech solution, including unit test cases, end-to-end (e2e) test cases, and conducted testing using Test Cafe. Contributed to technical debt evaluation and problem-solving efforts.

JUNE 2020 – DECEMBER 2020

Brightfield, New York, New York – *Full Stack Developer*

- Developed front-end architecture using React, TypeScript, and Redux for Talent Data Exchange, improving user experience and overall performance
- Designed and implemented Java-based microservices to handle high-volume talent and workforce data, integrating with relational databases and external APIs
- Used Maven for dependency management and build automation, ensuring efficient development and deployment cycles
- Deployed Java applications into containerized environments and application servers to support scalable and maintainable infrastructure
- Contributed to automated testing frameworks for both frontend and backend services, reducing defects and improving system reliability
- Identified and resolved backend bottlenecks through profiling and code optimization, improving response times and data processing throughput

JULY 2017 – AUGUST 2018

Hexaware, India – *Software Engineer*

- Orchestrated application state management, seamlessly updating the store and subscribed components, ensuring smooth operation and optimal performance.
- Created highly reusable TypeScript components and services, implementing a component-based architecture to consume REST APIs and maximize code efficiency efficiently.
- Conducted rigorous unit testing using Power Mockito to establish a robust and reliable codebase, guaranteeing high quality and stability

EDUCATION

JULY 2023 – July 2025

WestCliff University, Irvine, California - *Master's in Business Administration*

AUGUST 2018 - MAY 2020

Wichita State University, Wichita, Kansas - *Master's in Computer Science*

AUGUST 2013 - JULY 2017

Visvesvaraya Technological University, Bangalore, Karnataka - *Bachelor of Engineering in Information Science*