

# Sri Charan Byreddy

Software Engineer

• [byreddysricharan9@gmail.com](mailto:byreddysricharan9@gmail.com) • +1 (716)709-1593 • Florida (Open to Relocate) • [LinkedIn](#) • [Portfolio](#) • [GitHub](#)

## SUMMARY

**Software Developer** with **4+ years** of experience in designing and developing web applications, with a focus on modern front-end technologies including **React.js**, **Angular 10+**, **JavaScript (ES6+)**, **TypeScript**, **Redux**, **HTML5**, **CSS3**, **Tailwind CSS**, **Bootstrap**, and **AJAX** to build responsive, scalable, and cross-browser compatible user interfaces. Skilled in backend development using **Java**, **Node.js**, **Spring Boot**, **Spring MVC**, **Spring Security**, and **Hibernate (JPA)**, with proven expertise in building secure microservices, **API integrations**, and managing databases like **MongoDB**, **MySQL**, and **PostgreSQL**. Proficient in designing and testing **RESTful APIs** using **Postman**, **Cypress**, and **Jasmine**, and deploying applications on **AWS (EC2, Lambda, S3, RDS)** using **Docker** and **Kubernetes**. Experienced in setting up **CI/CD pipelines** with **GitHub Actions** and **Bitbucket**, following **Agile methodologies** and using **JIRA** for sprint and project tracking. Expert in performance monitoring using **ElasticSearch** and **Grafana**, and knowledgeable in **OOP**, **Data Structures**, and **SDLC principles**, with added experience in **Generative AI** and **Prompt Engineering** for integrating **LLM-powered** capabilities into enterprise solutions.

## SKILLS

**Programming Languages & Frameworks:** Java, Spring Boot, Hibernate (JPA), JSP, Python, Node.js, Express.js, FastAPI, RESTful APIs, Microservices, GraphQL

**Frontend Development:** JavaScript (ES6+), TypeScript, React.js, Next.js, HTML5, CSS3, Tailwind CSS, UI/UX Design, Responsive Web Design

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, Terraform, Jenkins, CI/CD Pipelines

**Databases & Data Management:** MySQL, PostgreSQL, MongoDB, Redis, Data Modeling, SQL Optimization, Caching (Redis, Memcached)

**Version Control & Tools:** Git, GitHub, GitLab, Bitbucket

**Security & API Management:** OAuth2, JWT, Role-Based Access Control (RBAC), API Gateway, Swagger, Postman

**Testing & Performance:** JUnit, Mockito, Jest, Mocha, Cypress, Selenium, Load Testing, Performance Tuning

**Agile & Collaboration:** Agile (Scrum/Kanban), JIRA, Confluence, Code Reviews, Sprint Planning, Cross-Functional Teamwork

## PROFESSIONAL EXPERIENCE

### CVS Health

Jul 2024 – Present | Tampa, FL

#### Software Engineer

- Enhanced real-time pharmacy order and inventory updates by developing and optimizing **RESTful APIs** with **Java 8** and **Spring Boot**, which reduced synchronization delays by **25%** and improved stock availability tracking for over **1,200+** retail outlets.
- Improved the security of sensitive prescription and insurance data by implementing **Spring Security**, **OAuth2**, and **JWT-based validation layers**, which prevented unauthorized data exposure and strengthened **HIPAA** compliance across multiple pharmacy software platforms.
- Boosted pharmacy billing and claims workflows by developing backend modules using **Hibernate** for database operations and **JSP** for interfaces, which increased order accuracy by **30%** and streamlined the management of high-volume prescription queues during peak hours.
- Reduced downtime during software releases by containerizing critical microservices with **Docker** and orchestrating deployments via **Kubernetes**, which minimized update-related service interruptions and allowed smooth weekly production rollouts.
- Migrated several high-volume pharmacy processing modules to **AWS EC2** with **S3-based storage and caching**, lowering infrastructure expenses by nearly **20%** per year and ensuring consistent performance during peak prescription refill hours.
- Increased deployment efficiency by configuring and maintaining **CI/CD pipelines** in **Jenkins**, automating testing, and reducing manual intervention, which improved delivery speed for seasonal promotions and insurance-related features.
- Performed API performance and load testing using **Postman** while validating transactional data with **PostgreSQL queries**, which reduced discrepancies in prescription order tracking by **25%** across interconnected pharmacy systems.

### Rubix Disruptive Technologies

Sep 2022 – Jul 2023 | India

#### Software Engineer

- Architected and optimized **React.js**-based e-commerce storefronts with **HTML5**, **CSS3**, and **Bootstrap**, enhancing responsiveness and navigation while reducing page load times by **35%**, ultimately improving the shopping journey for over **15,000** active monthly users across devices.
- Engineered and maintained scalable **Node.js microservices** for product catalog, checkout, and cart operations, improving backend data flow and service efficiency while ensuring consistent performance during peak traffic loads, which reduced server response time by **28%** during large festive campaigns.
- Integrated and secured **Razorpay** payment gateway using **JWT token-based authentication** and retry logic, enhancing the payment experience by reducing transaction dropouts and increasing successful payment completions by **22%** during high-volume sale events.
- Refactored backend workflows by optimizing **PostgreSQL queries**, indexing, and restructuring database schema design, which improved reporting queries, reduced database latency by **30%**, and provided faster analytics for inventory and order management.
- Transitioned high-resolution product images, videos, and content assets to **AWS S3** with **CloudFront CDN**, improving global content delivery speeds, reducing bandwidth costs, and ensuring seamless performance during heavy flash sales and marketing promotions.
- Designed and maintained **CI/CD** pipelines with **Docker** and **Kubernetes** to automate build and deployment, reducing manual tasks and improving release speed by **50%**, helping deliver seasonal offers and updates faster with fewer errors.
- Developed personalized product recommendation APIs using **RESTful services** and **React state management**, improving user engagement through tailored product suggestions, which increased customer session duration and boosted conversion rates by **18%**.
- Introduced and configured advanced monitoring with **Prometheus** and **Grafana**, enabling real-time system health checks, early anomaly detection, and reducing outage resolution time by **33%** during unexpected traffic spikes and system failures.

### Hexaware Technologies

Jul 2020 – Aug 2022 | India

#### Software Engineer

- Constructed and optimized **React** and **Redux**-based financial dashboards with **JavaScript (ES6)**, **Bootstrap**, and **AJAX** for monitoring real-time trading activities, fund transfers, and investment reports, enhancing performance by **28%** and increasing user engagement across mobile and web platforms.
- Built and maintained **RESTful microservices** using **Java** and **Spring Boot** to streamline payment reconciliation, loan application workflows, and credit scoring services, which reduced transaction processing time by **20%** and improved overall reliability during peak operations.
- Embedded multiple third-party payment gateways and implemented **secure APIs** with **Spring Security**, **JWT**, and encryption mechanisms, ensuring end-to-end data security, fraud prevention, and compliance with PCI-DSS and ISO security standards.
- Upgraded portfolio analytics and transaction reporting by migrating legacy modules from **MySQL** to **MongoDB**, designing optimized schemas and aggregation pipelines that improved query execution time by **35%** and eliminated reporting discrepancies.
- Optimized complex **SQL queries** and implemented caching strategies with **Redis**, designing advanced indexes for high-volume datasets, resulting in a **25%** boost in performance for real-time investment portfolio and client transaction lookups.
- Automated month-end ledger reconciliation and statement generation tasks using **Python scripts**, scheduling batch jobs and log cleanups, which streamlined financial reporting processes and reduced manual errors by **30%**.
- Deployed containerized financial applications using **Docker** and **Kubernetes** on **AWS EC2**, integrating CI/CD pipelines with **GitHub Actions**, which reduced downtime by **40%** during high-priority application releases and updates.
- Worked closely with business analysts, QA teams, and stakeholders in an **Agile environment**, managing sprints, **UAT** sessions, and release planning with **JIRA**, which improved on-time delivery of critical features for investment and banking modules.

## EDUCATION

**Master of Science in Data Science** | University at Buffalo, State University of New York, Buffalo, NY