# Dilip Reddy Seelam | Software Engineer

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## SUMMARY

- Accomplished Software Engineer with nearly 3 years of experience specializing in developing scalable and secure software solutions using Java,Python, SQL, and modern frameworks such as Django, Flask, and FastAPI.
- Proficient in designing responsive and interactive user interfaces leveraging React.js and Node.js, alongside front-end technologies like HTML, CSS, JavaScript, Bootstrap, jQuery, Ajax, JSON, and XML.
- Experienced in managing the full software development lifecycle (SDLC) using Agile and Waterfall methodologies to deliver optimized, high-quality software applications.
- Skilled in deploying and managing applications on cloud platforms such as AWS and Azure, with experience in using Docker and Kubernetes for containerization and orchestration.
- Advanced database management expertise, including schema design and optimization, with hands-on experience in MySQL, PostgreSQL, MongoDB, and NoSQL databases for efficient data operations.
- Proven ability to implement CI/CD pipelines using tools like Jenkins, GitHub Actions, and Docker, streamlining deployments and ensuring seamless integration processes.
- Strong skills in writing clean, maintainable, and testable code, utilizing testing frameworks such as PyTest and Unittest, and automating builds with tools like Gradle and Maven.

## TECHNICAL SKILLS

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| **Languages:** | Java, Java 8, SQL, Python |
| **Frameworks/Libraries:** | Scikit-learn, Matplotlib, Seaborn, TensorFlow, Keras, Jupyter, Spring MVC, JSF, Hibernate, Node.js, React.js, Spring Boot, Microservices, Spring Security, Django, Flask, FastAPI, Pandas, NumPy, TensorFlow |
| **IDE's:** | NetBeans, IntelliJ IDEA, Eclipse, Visual Studio Code, PyCharm, Jupyter Notebook |
| **J2EE Technologies:** | Servlets, JSP, JSTL, JavaBeans, JDBC |
| **Web Technologies:** | HTML, CSS, JavaScript, Bootstrap, jQuery, Ajax, JSON, XML, RESTful APIs |
| **Application Server:** | Apache Tomcat, WebSphere, Gunicorn, Nginx, AWS, Azure |
| **Cloud & Database:** | AWS (S3, Lambda, EC2), Azure (App Services, Storage), Google Cloud Platform, MySQL, PostgreSQL, MongoDB, NoSQL, SQLite |
| **Build /Other tools:** | UML, MS Visio, Maven, Gradle, JUnit, Jenkins, Docker, Kubernetes, Ansible |
| **Tools:** | Git, GitHub, Jira, Trello, Bitbucket, GitLab, PyTest, Unittest, Selenium |
| **Methodology:** | SDLC, Agile, Waterfall |

## PROFESSIONAL EXPERIENCE

**Cisco Technology**                                                                                    **Aug 2024 - Present**
**Software Engineer**

- Designed and implemented a scalable e-commerce platform, leveraging Python and Flask for back-end development, optimizing server performance and reducing query response times by 20%.
- Developed dynamic front-end modules using React and integrated state management with Redux, improving customer interaction and boosting user engagement by 25%.
- Integrated secure payment gateways with APIs like Stripe and PayPal, ensuring seamless financial transactions and achieving compliance with PCI-DSS standards.
- Built efficient API endpoints and implemented caching with Redis, enabling the system to handle high traffic loads of over 10,000 requests per minute while maintaining low latency.
- Automated deployment pipelines using GitHub Actions and Jenkins, reducing deployment cycles by 30% and ensuring consistency across development and production environments.
- Containerized the application using Docker and deployed it to AWS EC2, enabling scalable, reliable deployments with minimal downtime.
- Monitored application performance using Grafana and Prometheus, proactively resolving bottlenecks and ensuring 99.9% system uptime.

**Software Engineer Intern**                                                                             **Jan 2024 - May 2024**

- Collaborated on the development of a robust e-commerce platform, building secure RESTful APIs with Flask and ensuring efficient communication between client and server.
- Optimized database performance by redesigning schemas, indexing queries, and managing transactions in PostgreSQL, achieving a 15% improvement in response times.
- Conducted end-to-end testing using PyTest and Seelenium, identifying critical bugs and achieving 90% test coverage across the project.
- Assisted in integrating React components with back-end APIs, ensuring real-time synchronization of application states and smooth user experiences.
- Designed and implemented authentication workflows using JWT, enhancing data security and simplifying user login mechanisms.

- Participated in collaborative code reviews, maintaining adherence to clean code principles and industry best practices.

**Cybage Software**                                                                                          **Jan 2021 - Jun 2022**
**Software Developer**
- Developed scalable RESTful APIs using Java (Spring Boot) for a multi-channel e-commerce platform, supporting seamless integration between microservices and user-facing components.
- Implemented advanced concurrency management using multithreading in Java, supported by Redis for caching, increasing back-end throughput by 30% during peak traffic.
- Designed and enforced security protocols using Spring Security and encryption mechanisms to protect sensitive user data, maintaining a 100% security compliance rate.
- Automated deployment pipelines using Docker and Jenkins, reducing deployment lead times by 40% and ensuring zero-downtime updates.
- Optimized PostgreSQL database queries and designed stored procedures to handle large-scale data processing, improving transaction speeds and system reliability.
- Led the migration of a monolithic architecture to a microservices framework, enabling modular development and accelerating feature releases by 15%.
- Collaborated with DevOps teams to fine-tune CI/CD processes, ensuring seamless integration and deployment workflows.

**CitiusTech**                                                                                                   **Jul 2020 – Dec 2020**
**Front-End Developer**
- Translated detailed UI/UX designs into fully functional, responsive web interfaces using React.js and modern JavaScript libraries, delivering a seamless user experience across devices.
- Improved platform accessibility by adhering to WCAG standards, using ARIA roles, and optimizing for compliance, achieving 95% usability across various user demographics.
- Enhanced site performance by integrating lazy loading, file compression, and CSS/JS minification techniques, reducing page load times by 40%.
- Built reusable and modular components for key application features, such as product listings, user accounts, and checkout processes, significantly reducing development time for future iterations.
- Integrated RESTful APIs with React-based front-end, enabling real-time synchronization of product inventory and user accounts.
- Conducted thorough cross-browser testing and debugging, ensuring compatibility and consistent functionality across major browsers.
- Improved search engine visibility by implementing SEO best practices, such as schema markup and optimized meta tags, leading to a 20% increase in organic search traffic.

## PROJECT

### Multi-Tenant SaaS Application
- Developed a multi-tenant SaaS platform using TypeScript, React, Node.js, and NestJS with Stripe integration for billing, JWT-based user authentication, and role-based access control.
- Deployed on AWS and GCP, optimizing resource usage and reducing cloud infrastructure costs by 25%. Integrated GraphQL and RESTful APIs to improve extensibility and system performance, achieving a 30% reduction in downtime through real-time monitoring with AWS CloudWatch and GCP Stackdriver.
- Implemented advanced security protocols, including encryption of sensitive data at rest and in transit, and auto-scaling infrastructure to handle increased load during peak usage, ensuring a 99.9% uptime SLA for the platform.

### Event-Driven Microservices Architecture for Travel Booking System
- Built a travel booking system using an event-driven microservices architecture with Apache Kafka for real-time bookings and cancellations, ensuring system scalability on AWS ECS.
- Developed a React.js front-end with TypeScriptfor booking flights, hotels, and car rentals, along with a real-time notification system with a 99% delivery rate.
- Utilized PostgreSQL and AWS RDS for transactional data, ensuring consistency and reliability across the platform.

### Smart Healthcare Management System
- Developed a smart healthcare management system using Java, Spring Boot, React.js, TypeScript, and NestJS, supporting secure appointment scheduling, medical records management, and Stripe-based billing.
- Integrated Spring Security for role-based access control and RabbitMQ for real-time notifications, ensuring timely and secure communication.
- Deployed on AWS EC2 and GCP using Docker and Kubernetes for scalability, with GraphQL enabling efficient querying of medical records and appointment data.

## EDUCATION

**Masters in Computer Science**                                                                              **Aug 2022 – May 2024**
California State University, Eastbay

**Bachelor's in computer science**                                                                           **Aug 2018 – May 2022**
Vellore Institute of Technology

## CERTIFICATION

AWS Certified Developer-Associate