

Maheshwarswami Hiremath

Software Engineer

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OBJECTIVE

Results-driven Software Engineer experienced in designing and developing highly scalable Java-based web applications, robust RESTful APIs, and reliable microservices. Proficient in Java, Spring Boot, AWS, Microservices architecture, Python, Node.js, and SQL databases. Experienced in optimizing application performance, integrating third-party APIs, and collaborating within cross-functional Agile teams.

SKILLS

Languages/Databases: Java, Python, JavaScript, MySQL, NoSQL, HTML/CSS

Cloud Platforms: AWS (EC2, ECS, S3, Lambda, RDS)

Frameworks: Spring Boot, Microservices, Spring, Hibernate, Docker Containers, Redis, RESTful APIs; Node.js, React.js, Express.js, GraphQL

Machine Learning & Deep Learning: Representation learning, attention-based architectures, spatial feature extraction, inductive bias analysis, Convolutional Neural Network, Multi-Layer Perceptron, (Vision) Transformer

Developer Tools: Maven, JIRA, Git, Eclipse/Visual Studio, Jenkins, JUnit, Fortify, NexusIQ, Mockito, Continuous Integration/Continuous Deployment (CI/CD), Agile methodologies

Other Skills: Test-Driven Development (TDD), Third-party API integration, Web Application Design, Performance Optimization, Security Best Practices, Troubleshooting

EXPERIENCE

Java Developer

JPS Tech Solutions | Remote, United States

March 2025 – June 2025

- Developed and deployed scalable, event-driven microservices and RESTful APIs using Java, Spring Boot, and AWS services (Lambda, API Gateway, DynamoDB), following best practices for JVM-based service design
- Collaborated with Verizon's architecture team to enhance microservice throughput and reliability, improving system performance and scalability across production environments
- Integrated Redis-based caching, structured logging, and observability tooling to support faster debugging and increased service uptime
- Worked in a CI/CD pipeline environment (Jenkins) alongside DevOps, QA, and security teams to enable automated, secure, and high-quality deployments using Agile methodologies
- Contributed to cloud-native initiatives and containerization efforts using Docker and Kubernetes to ensure smooth rollout and orchestration of services

Software Engineer

KeelWorks Foundation | Remote, United States

Oct 2024 – March 2025

- Developed the KeelHub volunteer management system using Node.js, Express.js, and MySQL, optimizing data processing and API integrations for high availability.
- Contributed to a modular architecture (controllers, models, routes) to streamline feature additions such as automated onboarding workflows, real-time notifications, and role-based access control, ensuring reliable daily user experience.
- Collaboratively built a user-friendly and intuitive UI that conforms to organization-wide standards, enhancing client engagement and usability.
- Enhanced scalability by adopting a clear project structure and thorough API documentation, reducing onboarding time for new developers and enabling seamless collaboration with cross-functional teams.

Technologies: Node.js, Express.js, MySQL, API Development, JavaScript, ContextAPI

Software Engineer

WebFCE (Healthcare Startup) | Remote, United States

July 2024 – Oct 2024

- Designed and built full-stack web applications using ASP.NET Web Forms, VB.NET, C#, JavaScript, and SQL Server, ensuring maintainable and efficient code aligned with MVC principles.
- Integrated robust data storage solutions using SQL Server and implemented APIs to seamlessly connect front-end and back-end aspects of the application.
- Improved performance and responsiveness through code optimization and troubleshooting, effectively identifying and resolving bottlenecks and bugs.

Technologies: Asp.net, VB.NET, C#, Visual studio, JavaScript, SQL Server, Microsoft Azure

Software Engineer

Infosys Limited | Mysuru, India

July 2018 – August 2022

- Developed Spring Boot microservices to production that processed 5 million records in 7 hours—highly reliable, scalable, and loosely coupled using SQS messages.
- Achieved 97% code compliance across microservices via automated testing with JUnit 5 and Mockito, adhering to TDD principles and leveraging Postman for integration tests.
- Developed a scalable API platform hosted on AWS Lambda, handling over 137,000 communication requests per hour.
- Demonstrated strong technical research and troubleshooting to enhance API response times from 18–23 ms to 5–10 ms and reduce EC2 downtime from 30 to 10 minutes.
- Spearheaded the design and development of highly available, distributed, and scalable software, fostering an agile environment across cross-functional teams.

Technologies: Java 8, Spring Framework, Hibernate, Python, AWS, JUnit, Mockito, ServiceNow, TDD, JDBC, TeamCity

Senior Software Developer (On-site)

ABN AMRO Bank N. V. | Amsterdam, Netherlands

Sep 2021 – April 2022

- Optimized core template generation software and hardware allocation in test/production environments, reducing server load by 30%.
- Implemented security best practices and coding standards, minimizing vulnerabilities by 80% through Fortify and NexuS IQ.
- Drove software performance enhancements and resource optimization within the Financial Services domain, advocating agile collaboration with cross-functional teams to align on requirements.
- Exhibited technical leadership by conducting code reviews, building reusable frameworks, and mentoring team members in engineering best practices.

Technologies: Java 11, Spring Boot, Docker, AWS Services, Azure, SQS, RESTful API, Agile DevOps, Eclipse

EDUCATION

Stevens Institute of Technology

Master of Science in Computer Science

Relevant Coursework: Data Structures and Algorithms, Web Programming I and II, Python Programming, Agile Methods, Software Engineering, Object-Oriented Programming (OOP), Leader Development, Machine Learning, Deep Learning

Research Activities: Developed an Android application for real-time sound analysis and detection using Java, integrating advanced audio processing techniques to enable sound recognition and user interaction for people with MCI /Alzheimer's.

PROJECTS

QuantumPhaseClassifier

- Designed and implemented MLP, CNN and Transformer architectures to classify thermal phases of 2D Ising model spin configurations from image data.
- Built preprocessing pipeline with masking, cropping, and data normalization to convert raw lattice plots into learnable features.
- Implemented scalable deep learning architectures with custom preprocessing (cropping, masking, normalization) to handle raw lattice simulations and highlight phase transitions.

Electronics Services Management System

- Developed a comprehensive web application for work order management, incorporating secure authentication and real-time API interactions.
- Designed a backend system using Node.js and Express.js, ensuring high-performance data transactions.
- Implemented microservices-based architecture and automated CI/CD pipelines for continuous deployment.
- Integrated Redis caching and optimized database design for improved system responsiveness.

Technologies: React, Node.js, Express, Redis, MongoDB, Firebase Auth, AWS, jQuery, JSReports, Nodemailer