

PHALGUNA PERAVALI

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CAREER SUMMARY

Innovative Software Engineer with 4+ years of experience leveraging Java, Python, and modern web frameworks to architect and develop robust, scalable, and secure software solutions. Proven track record of leading and mentoring agile teams, fostering a collaborative and efficient development environment. Passionate about full-stack development and continuous learning. Certified Agile practitioner with a strong foundation in computer science and a proven ability in full-stack development and complex problem-solving.

Areas of Expertise

Software Engineering – High-Performance REST APIs – Backend Development – Process Automation & Tool Creation – Version Control & API Integration – Security & Vulnerability Management – UI Design & User Experience – Data Analysis – Data Mining – Machine Learning – Statistical Analysis – Data Visualization – Data Pipeline – Data Architecture – Data Modelling – Data Security – Agile & Scrum Methodologies – Research & Development – Leadership & Team Collaboration – Continuous Integration & Testing

Technical Skills

- **Languages:** Java8, JavaEE, Python, JavaScript, SQL, Angular7, HTML (HTML5), and CSS (CSS3)
- **Frameworks and Libraries:** Spring Framework (Including Spring Boot, Spring Security, Spring Web Services, Spring Data JPA), Struts, React (Including ReactJS), Node.js, JUnit (JUnit 5), Mockito, J2EE, JDBC, and EJB (Enterprise JavaBeans)
- **Tools and Platforms:** AWS (Amazon Web Services), Docker, Kubernetes, Git (implied by version control and CI/CD implementation), and Jenkins (CI/CD Implementation)
- **Concepts and Architectures:** REST API Development, Microservice Architecture, Backend Development, Database Administration, Object-Oriented Programming (OOP), Design Patterns, SOA (Service-Oriented Architecture) Applications, Web and Client-Server Application Development, and Agile Software Development Lifecycle

PROFESSIONAL EXPERIENCE

University of Florida Information Technology (UFIT) – Gainesville, FL

Aug 2024 – Dec 2024

Cybersecurity Risk Analyst Intern

- Executed detailed cybersecurity vulnerability assessments using advanced diagnostic tools to enhance network and data security frameworks.
- Engineered and implemented comprehensive security solutions alongside IT specialists, significantly reducing the risk landscape by addressing potential and active threats.
- Participated in the lifecycle of risk management processes including initiation, analysis, evaluation, and mitigation strategies, ensuring alignment with the university's information assurance policies.
- Facilitated refining and deploying risk assessment methodologies and tools, increasing the efficiency and accuracy of security audits and compliance checks.

Environment: Veracode, Spring Security, Vulnerability Assessments, penetration Testing, MATLAB, Nessus, Qualys, custom security frameworks, Windows and Linux servers, network security, data encryption, and endpoint protection.

BRILLIO – Bangalore, India

Oct 2021 – July 2023

Senior Software Engineer

- Engineered and optimized high-performance REST APIs for Verizon's SPM dashboards, enhancing system reliability and elevating user satisfaction by 80% through sophisticated CRUD operations and tailored multi-tenant services.
- Led the design and implementation of internal tools, streamlining processes and boosting productivity by deploying cutting-edge JavaScript frameworks in an Agile setting.
- Championed rigorous software testing and quality assurance by instituting JUnit and Mockito methodologies, and advancing Git for version control, significantly improving maintainability and scalability.
- Orchestrated CI/CD pipelines, reducing deployment failures and accelerating production timelines by 50%, thereby maximizing operational efficiency and system robustness.

Environment: Java, Spring, Spring Boot, Struts, Python, Node JS, Maven, Hibernate, Postman, Git, Jenkins, JUnit, Tomcat, Mockito, RESTful API, Microservices, VSC, Jira, Confluence, Angular7, Databases, Oracle SQL, MySQL.

CAPGEMINI – Bangalore, India

July 2019 – Oct 2021

Software Engineer

- Designed scalable, high-performance Java/Spring Boot enterprise APIs and optimized database functions using advanced stored procedures to ensure system reliability.
- Successfully mitigated critical system vulnerabilities by conducting security scans to identify and neutralize SQL injection and XSS threats, enhancing application integrity.
- Enhanced user interfaces using JavaScript and Angular, implementing best practices in code development to elevate user experience and operational efficiency.
- Led Agile projects from concept to delivery, enforcing rigorous JUnit testing to maintain high code quality and overseeing feature development to meet precise specifications.
- Fostered a collaborative development environment with Git version control, promoting knowledge sharing and efficient task management to boost team productivity.

Environment: *Java, Spring Boot, SQL, APIs, JSON, JUnit, Hibernate, Jenkins, Postman, Bitbucket, Git, Jira, Agile.*

RESEARCH AND PAPERS

Workload Analysis and EEG Classification

- Advanced EEG signal classification by developing and implementing machine learning algorithms, enhancing biomedical data accuracy; results documented in peer-reviewed research.

GPS-Based Space Debris Removal System

- Innovated GPS-based algorithms and predictive models for space debris tracking and removal, significantly improving safety measures; findings published in a leading journal.
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EDUCATION

Master of Science in Computer Science | University of Florida – Florida, USA

Aug 2023 – Present

Bachelor of Technology (GPA: 3.5/4.0) | Jawaharlal Nehru Technological University – Anantapur, India

2015 – 2019

CERTIFICATION

Oracle Certified Java SE 8 Developer Associate
Certified Agile sAfe5 Practitioner