

# VARUN MEDIDA

## SOFTWARE ENGINEER

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### SUMMARY

- Software Enthusiast with over 5 years of experience, adept in **Java**, **Python**, and **SQL** to build efficient and scalable applications tailored to meet business requirements.
- Proficient Database Manager with expertise in **MySQL**, **PostgreSQL**, **MongoDB**, and **Oracle**, skilled in optimizing data storage and retrieval to support complex operations.
- Experienced Back-End Developer, adept at developing secure, efficient applications using **Java (Spring Boot, Spring Core)**, **Python (Django, Node.js)**, and **.NET**, ensuring high reliability and seamless integration with front-end systems.
- **Experienced Cloud Practitioner**, skilled in leveraging **AWS** services like **EC2**, **S3**, **Lambda**, **CloudWatch**, **RDS**, and **Glue** to design scalable, reliable cloud architectures that improve system performance.
- **Proficient in Software Frameworks** such as **Spring Boot** for enterprise applications, **Angular** for single-page applications, and **Hibernate** for ORM, promoting modular and efficient designs.
- Well-versed in **SDLC**, **Agile**, and **Waterfall** methodologies to guide project lifecycles, ensuring adherence to deadlines and specifications.
- Thorough Testing Skills, utilizing Selenium for web automation, Postman for API validation, and JUnit for unit tests to ensure component reliability across various scenarios.
- Skilled in Version Control, using **Git** and **GitHub** to manage code versions, collaborate with team members, and prevent data loss.
- Experienced with **IDEs** such as Visual Studio Code and IntelliJ, optimizing workflows through integrated debugging and code management features.

### PROFESSIONAL EXPERIENCE

#### Storee Construction

Atlanta, Georgia, USA

##### System Testing Specialist

October 2024 - Present

- Configured quality assurance protocols for Storee’s dashboard by implementing JIRA for tracking and Selenium for automated testing, resulting in a 20% reduction in QA time and enhancing system reliability across cost, scheduling, and HR functions.
- Executed comprehensive user and regression testing using Postman and JUnit, leading to a 30% reduction in post-release issues by promptly identifying and resolving system defects in collaboration with product and development teams.
- Designed and optimized over 100 test cases, leveraging TestRail for tracking, to improve testing precision and reliability by 40%, ensuring the system consistently meets stakeholder requirements.

#### Georgia State College of Law

Atlanta, Georgia, USA

##### Software Developer - Data

January 2023 - March 2024

- Developed automated data collection workflows using Python’s Pandas library and custom scripts, reducing processing time by 70% and enabling accurate, on-demand data retrieval to support faster, data-driven decision-making.
- Built dynamic data visualizations with Matplotlib to illustrate trends in complex datasets, increasing data accessibility for stakeholders by 30% and enabling informed decision-making in research projects.
- Engineered optimized data algorithms for structuring large datasets, applying microservices architecture to handle distributed data, resulting in a 20% boost in accessibility and 25% faster data processing.
- **Orchestrated** Agile framework processes, aligning deliverables with project objectives, enabling continuous feedback loops, driving iterative improvements, ensuring alignment with stakeholder requirements, and sustaining momentum throughout the project lifecycle.

#### Epam Systems

Hyderabad, India

##### Software Engineer

January 2020 - December 2022

- Developed single-page applications (SPA) using MVC design pattern, with modular HTML and CSS for responsiveness, generating 100+ monthly interactions.
- Integrated React components into the front end to deliver dynamic, user-friendly pages, reducing load times by 30% and increasing user engagement on key workflows.
- Configured AWS CloudWatch to monitor key performance metrics (CPU usage, response time) and set up alerting protocols, resulting in a 25% reduction in system downtime and improved user experience.
- Automated cloud infrastructure provisioning with Terraform and Infrastructure as code, enhancing platform scalability and reliability by 15% to handle high traffic demands within a microservices environment.
- Built secure RESTful APIs for CARMA project using JWT authentication and HTTPS, facilitating efficient data exchange and increasing system stability across integrated business functions by 20%.
- Developed and rigorously tested APIs with Postman, improving functionality consistency by 30% and resolving potential data issues pre-deployment, enhancing the user experience.
- Led code reviews and coordinated version control in Git, achieving a 40% reduction in integration issues and fostering efficient, quality-driven collaborative development processes.
- Automated deployment on AWS using EC2 and Lambda, optimizing resource allocation and achieving a 20% increase in application responsiveness to meet high-demand usage scenarios.
- Implemented Spring Security with AES encryption and HTTPS, achieving 100% compliance with data protection standards and safeguarding user data confidentiality across platforms.

Tata Consultancy Services

Associate Systems Engineer

Hyderabad, India

June 2019 - December 2019

- Developed robust, scalable Java applications using Spring Boot and MVC, optimizing performance, delivering reliable operations, adhering to coding best practices, ensuring stable functionality and maintaining consistent standards under varied workloads.
- Designed PostgreSQL databases, ensuring data integrity, performance, security for inventory data, implementing schema design and indexing to support scalable, high-performance applications, optimizing data handling and reliable data storage.
- Built responsive interfaces with Angular, following web development best practices and accessibility standards, improving user satisfaction by 20% through streamlined interface functionality, enhanced design, and user-centric component integration.
- Steered Agile ceremonies (sprint planning, stand-ups, retrospectives) to synchronize project tasks with objectives, ensuring consistent feature delivery, fostering collaboration, and incorporating feedback to drive iterative, impactful enhancements.
- Utilized GitHub for version control, managing repositories, implementing branching, enabling collaborative development with structured pull requests and code review, supporting efficient workflows, and maintaining code integrity and organization.

Spyry

Intern

Bangalore, India

March 2018 - May 2018

- Conducted vulnerability assessments using design patterns in secure coding to minimize risks, strengthening system robustness by 40%.
- Performed penetration testing with Kali Linux, Burp Suite, providing actionable insights to address vulnerabilities, supporting proactive measures that fortified application defenses against potential threats and ensured system stability and safety.
- Collaborated with senior engineers to implement best practices, contributing to remediation of identified vulnerabilities, improving system security through defined protocols, enhancing data protection, and following industry standards effectively.
- Documented findings in detailed reports, ensuring clear, concise communication of security issues and resolution steps, facilitating team collaboration, promoting cybersecurity awareness, and establishing a proactive approach to security.

TECHNICAL SKILLS

Programming Languages:	Java, Python, SQL, PHP, C++, C#, HTML, JavaScript, TypeScript, JQL
Databases:	MySQL, PostgreSQL, MongoDB, Oracle, MS SQL Server, AWS RDS
Web Technologies:	HTML, CSS, JavaScript, Bootstrap, XML, jQuery, React, Node, Express, Angular, Java (Spring Boot, Spring Core), Python (Django), Node.js, .NET
Cloud Technologies:	AWS (EC2, S3, Lambda, RDS, CloudWatch, Glue, IAM, VPC, CloudFormation, DynamoDB, API Gateway), Azure, Google Cloud Platform (GCP)
Frameworks:	Spring Boot, Spring Core, Hibernate, Angular, React, Playwright, Selenium, Dagger, jQuery, Bootstrap, Node.js, Express.js, Mockito, JUnit
DevOps & CI/CD:	Git, GitHub, Jenkins, Terraform, Docker, Kubernetes
Data Streaming:	Apache Kafka, SQS
Data Visualization:	Matplotlib, Tableau, Excel
Methodologies:	Agile, Scrum, Waterfall, Software Development Life Cycle (SDLC)
Testing Tools:	Selenium, Playwright, Postman, JUnit, API Testing
Version Control Tools:	Git, GitHub
IDE'S:	Visual Studio Code, IntelliJ, Eclipse

EDUCATION

Georgia State University

Masters in Computer Science

Anurag Group of Institutions

Bachelors in Information Technology

Atlanta, Georgia, USA

December 2024

Hyderabad, India

August 2019

PROJECTS

1. Disaster Data Management System

Developed a full-stack application to automate disaster data retrieval, processing, and visualization from the EM-DAT database. Integrated a React front-end with input fields for year range selection, a Spring Boot back-end for Playwright-based data extraction, and a Python script for data processing. Leveraged PostgreSQL for data storage, ensuring scalable and efficient management of disaster records, with asynchronous processing to enhance user experience. Addressed challenges in file handling and database constraints, delivering a robust, automated data solution.

2. eCommerce Website

Built an eCommerce platform during training at EPAM Systems, using Java Spring Boot for the back end and Angular for the front-end. Enabled features for customers to shop for products, view items in a cart, and modify selections, creating an intuitive user experience. Integrated Selenium and Playwright for automated functional and end-to-end testing, achieving 95% test coverage and ensuring reliable cross-browser performance.

3. Travel Amigo

Oversaw the development of a React Native mobile app for travel planning, receiving feedback from over 200 students and achieving a 4.5-star user satisfaction rating. Integrated features for user authentication, dynamic trip management, and weather forecasting, driving a 30% increase in user registrations and a 20% improvement in retention. Collaborated closely with the development team to meet project goals, fostering a user-friendly and engaging application.