

# Vishal Madhav

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## Brief Summary

I am a Full Stack Developer with expertise in both front-end and back-end development. On the front-end, I am proficient in HTML, CSS, JavaScript, and React, crafting user-centric interfaces, and on the back end, I excel in Java and the Spring framework, enabling the creation of robust and scalable applications. Additionally, I bring valuable experience in AWS, including launching and configuring EC2 instances, managing secure Amazon S3 buckets, and optimizing Amazon RDS instances for improved performance. I have collaborated on AWS Lambda functions for serverless applications, designed secure VPC networks, and implemented best practices for AWS security. I actively use AWS CloudWatch for resource monitoring, troubleshoot and resolve AWS-related issues, and contribute to documentation and SOPs for knowledge sharing. My commitment to continuous learning ensures that I stay updated with AWS best practices while delivering high-quality solutions and driving innovation within cross-functional teams.

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## Technical Skills

Java/J2EE Technologies	Servlets, JDBC, JFC/Swing, AWT, Applets, Multi-threading, Java Networking, Spring Boot, MVC, Spring MVC
Programming Languages	Java, SQL, PL/SQL
Application/Web Servers	Oracle/BEA, Tomcat
IDEs	Eclipse, IntelliJ
Web technologies	HTML5, CSS3, JavaScript(+ES6), TypeScript, Ajax, jQuery, Vue, Angular, React, Node.js, JSON, Bootstrap, Tailwind
AWS Skills	EC2, S3, RDS, EBS, AMI, ELB, CLI, SNS, RDS, VPN, NAT, GIT, DNS, Route53, DBA, DynamoDB.
Methodologies	SDLC, Waterfall model, Agile Model
Modeling Tools	UML, Rational Rose
Database	Oracle 8i/9i/10g/11g, SQL Server 2008, MySQL,
Version Control	Git
Build Tools	Maven, Gradle
Platforms	Windows, LINUX
Testing	Jira

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## Technical Summary

- Strong grasp of **Java** fundamentals, **OOP**, **multi-threading**, and **exception handling**.
  - Proficient in **Spring** Framework: **Core**, **MVC**, **ORM**, **DAO**, **IoC**, and **DI**.
  - Skilled in diverse front-end technologies: **HTML5**, **CSS3**, **JavaScript**, **jQuery**, **Angular**, **React**, **VueJS**.
  - Expertise in **REST API** programming, design principles, and **JSON/XML handling**.
  - Cloud-native solutions with **AWS**: **EC2**, **S3**, **Lambda**, **RDS**, **API Gateway**.
  - Versatile with databases: **SQL (Oracle, MS SQL Server)**, **NoSQL (Google Firebase)**.
  - Proficient in tools like **Eclipse**, **IntelliJ**, **Maven**, **JIRA**, and **Git** for streamlined development.
  - Effective team **leadership**, driving successful **project delivery** and client satisfaction.
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## Work Experience

Junior Software Developer, Endeavour Technologies Inc., Chantilly, VA

Aug '22 – Dec '23

- Designed scalable and maintainable financial applications using the **Spring Framework**.
- Implemented Inversion of Control (IoC) and Dependency Injection (DI) principles for modular components.
- Utilized **JDBC** with **Spring** to ensure seamless interaction with the **Oracle** database for financial data handling.
- Designed and implemented Value Objects (VO) for enhanced data transfer between application layers.
- Developed efficient Data Access Objects (DAO) using **Spring JDBC** templates for reusable code.
- Utilized **JIRA** for efficient project management, ensuring timely completion of tasks and effective collaboration within the team.
- Demonstrated expertise in version control using **Git**, ensuring code integrity, and facilitating collaboration among team members.
- Created Entity classes to maintain data consistency and implement business rules for financial entities.
- Engineered Service classes to encapsulate business logic, promoting modularity in financial app development.
- Developed Controllers with **Spring MVC** for smooth handling of financial data and user interaction in web applications.
- Proficient in UI development using **HTML**, **CSS**, **JavaScript**, and various frameworks including **Django Python**, **React**, **Angular**, **Vue**, and **Ajax**.

- Proficient in **Oracle** database management, authoring **SQL** queries for data updates and table creation.
- Actively employed **Test-driven Development (TDD)** principles to ensure robust and reliable code, improving software quality and reducing debugging time.
- Incorporated **Continuous Integration (CI)** and **Continuous Delivery (CD)** practices into the development workflow, enabling frequent and reliable releases of high-quality software.
- Led end-to-end **Software Development Life Cycle (SDLC)** engagement, including requirements gathering, analysis, design, development, testing, and production.
- Collaborated with stakeholders to refine technical designs through discussions with business and testing teams.
- Engineered reusable Selection Criteria code to optimize database interactions and improve efficiency.

*Cloud Practitioner Intern, Cloud Data, Aldie, VA*

**May '21 – Aug '21**

- Proficient in **EC2** instance launch and configuration, including instance selection, security group setup, and management via AWS Management Console.
- Established and maintained secure **Amazon S3** buckets and managed access control policies for scalable data storage.
- Supported **Amazon RDS** instances, performing tasks such as database creation, backups, and performance optimization.
- Collaborated on the development of **AWS Lambda functions** for serverless applications, enabling event-driven automation.
- Designed and configured **Virtual Private Cloud (VPC)** networks, including subnet creation, route tables, and security groups for network isolation.
- Implemented **AWS** security best practices, managing IAM users, data encryption, and MFA setup for enhanced security.
- Utilized **AWS CloudWatch** to establish monitoring and alarms for resources, aiding in proactive issue resolution.
- Proficient in troubleshooting **EC2 instances, S3 access, and Lambda functions** for smooth operations.
- Contributed to documentation and SOP creation for **EC2** provisioning, **S3** management, and **Lambda function** deployment.
- Collaborated with cross-functional teams to understand **cloud computing** requirements and provide **AWS solutions**.
- Actively engaged in continuous learning and staying updated with **AWS** best practices.

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## Certification

*Cloud Practitioner*, Amazon Web Services

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## Education

**Bachelor of Science in Computer Science, Pennsylvania State University - Harrisburg, Middletown, PA**

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## Projects

**CodeFlower**, Full-Stack Web Application ([Link](#))

A website that helps teach middle school and high school students the fundamental basics of Python programming, which can help be a learning tool for people who want to pursue Computer Science in the future. Uses Django Python to construct the site and run functionalities (logging, registering a site, configuring settings) that are needed for the application, HTML to create and display the web application, CSS to style the web application, and MySQL to store and retrieve the data objects and its values.

**React Weather App**, Front-End Web Application ([Link](#))

A simple weather app that gets hourly and daily forecasts, the current temperature in either Fahrenheit or Celsius , and the local time and date of a particular city or town. In addition, the app also has a location icon to get the weather of the current location that the user is currently residing in. Uses React to create the web application, Tailwind CSS to style the web application, OpenWeatherMap API to call and retrieve the weather forecast of a particular location and React Tostify to notify the user that the data of a particular place's weather is either being retrieved, has been successfully retrieved, or resulted in an error while retrieving the data.