

Vishal Madhav

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Brief Summary: I am an entry-level Full Stack Developer that is equipped with a solid foundation in both front-end and back-end development. With a proficiency in languages such as Java and expertise in utilizing the Spring framework, I am poised to contribute effectively to the entire software development process. Through hands-on experience with technologies like HTML, CSS, JavaScript, and React, I am well-prepared to create engaging and user-centric applications. With a collaborative mindset and a commitment to continuous learning, I am eager to contribute to dynamic cross-functional teams, driving innovation and delivering high-quality solutions across the full spectrum of software development.

EDUCATION

Pennsylvania State University (Harrisburg), Middletown, PA
Bachelors of Science in Computer Science
GPA: 3.0

August 2022

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**, **Git** for streamlined development.
 - Effective team leadership, driving successful project delivery and client satisfaction.
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Work Experience

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

Jan '22 – Jul '23

- Spearheaded end-to-end **SDLC** engagement: **requirements gathering**, **analysis**, **design**, **dev**, **testing**, and **production**.
- Led discussions with stakeholders, refining **technical design** through collaboration with business and testing teams.
- Engineered reusable **Selection Criteria** code, optimizing database interactions and improving efficiency.
- Leveraged **Oracle DB** expertise: authored diverse **SQL** queries, driving updates and table creation.
- Designed robust financial apps using **Spring** Framework, ensuring scalability and maintainability.
- Implemented **Inversion of Control (IoC)** and **Dependency Injection (DI)** principles, fostering adaptable, modular components.
- Executed **JDBC** with **Spring** for seamless interaction with **Oracle DB**, critical for financial data handling.
- Designed and implemented **Value Objects (VO)**, enhancing data transfer across application layers.
- Developed efficient **Data Access Objects (DAO)** using **Spring JDBC** templates, ensuring reusable code.
- Created **Entity** classes reflecting financial entities, maintaining data consistency and implementing business rules.
- Engineered **Service** classes for encapsulating business logic, promoting modularity in financial app development.
- Developed Controllers with **Spring MVC** for smooth financial data and user interaction handling in web apps.
- Involved in development of User Interface using **HTML**, **CSS**, **JavaScript**, **Django Python**, **React**, **Angular**, **Vue**, and **Ajax**.

- Provided exceptional customer service as a Game Advisor at Gamestop, assisting customers in their gaming needs.
- Utilized in-depth knowledge of a wide range of video games, consoles, and accessories to guide customers in making informed purchasing decisions.
- Acted as a resource for customers, answering questions about game content, compatibility, and gameplay mechanics.
- Gave recommendations and insights to customers based on their preferences and gaming interests.
- Managed transactions, processed purchases, returns, and exchanges accurately and efficiently.
- Organized and maintained store displays, ensuring products were well-presented and easily accessible to customers.
- Stayed up-to-date with the latest gaming trends and releases, enabling effective communication of new arrivals and promotions to customers.
- Collaborated with the team to contribute to a positive and vibrant store environment, fostering customer loyalty and satisfaction.

Technical Skills

Java/J2EE Technologies	Servlets, JDBC, JFC/Swing, AWT, Applets, Multi-threading, Java Networking.
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

Relevant Coursework

Capstone Project

CMSPC 488

A hands-on course that focused on **real-world software system design and development**. It highlights **teamwork, integrating computer science concepts**, and serves as the **capstone** for the degree program. Students collaborate on a project, covering **technical instruction, research, and software implementation**.

Design and Analysis of Algorithms

CMPSC 463

This course focused on **algorithm design, covering recurrences, searching, sorting, graphs, NP-completeness**, and more. The course emphasizes fundamental techniques for **algorithm analysis** and introduces strategies for tackling complex problems. **Java** is the primary programming language used in the course.

Data Structures

CMPSC 462

A course that delved into data structures like **balanced trees, hash tables, priority queues**, and more. The course equips students with essential tools for crafting **efficient algorithms** and cultivates the skill to create and assess new **data structures** when addressing challenges. **Java** serves as the main programming language. This course sets the foundation for CMPSC 463, bridging data structure proficiency with algorithm design and analysis.

Object Oriented Programming with Web-Based Applications

CMPSC 221

This **Java-based** course explores advanced **object-oriented principles** in web-based computing. Topics include virtual machines, **GUI design, server-side programming, security**, and more. Extensive programming assignments cover the **client/server development cycle**, preparing students to tackle complex computational problems.

Net-centric Computing

CMPSC 421

This course introduces **JavaScript, AJAX, XML**, and frameworks like **Angular, Vue, and React** for creating **Rich Internet Applications** and facilitating client-server communication. Building on foundational concepts, the course covers essential Net-centric technologies. Students had to develop dynamic client interfaces using **HTML5, CSS, JavaScript, and AJAX**. **XML** serves as the primary data transmission language, with considerations for **JSON**. Server-side topics encompass **XML parsing, transformation, data access, and Web services**, preparing students for evolving Net-centric computing paradigms.

Projects

CodeFlower, Full-Stack Web Application (No Link available)

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.