Dinesh Sripathi Panditharadhyula

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Education

University of Alabama at Birmingham   **Aug. 2024 – May 2026**
Master's in Computer Science   *Birmingham, Alabama*
Vasireddy Venkatadri Institute of Technology   **July 2018 – April 2022**
Bachelor's in Computer Science and Engineering   *Guntur, India*

Experience

EPAM Systems   **June 2022 – July 2024**
Junior Software Engineer – Java Backend Developer   *Hyderabad, India*

- Spearheaded optimization processes resulting in a 30% increase in API throughput by refining database queries and execution strategies, thereby accelerating access times for employee information retrieval tasks.
- Achieved a 30% reduction in API response times by optimizing data retrieval algorithms and database query execution, enabling faster employee data access.
- Resolved 60+ bugs across multiple projects, reducing critical issues by 25% and stabilizing applications to improve user satisfaction and system performance.
- Streamlined CI/CD pipelines by automating workflows, resulting in a 20% reduction in deployment times and improved software delivery accuracy.

EPAM Systems   **Jan 2022 – Jun 2022**
Intern   *Hyderabad, India*

- Engineered RESTful web services using Spring Boot and Spring MVC, optimizing data flow and improving communication across multi-layered application architectures.
- Achieved zero breaches over six months post-integration of advanced authentication techniques via Spring Security, directly ensured secure communication channels for sensitive user data throughout application services.
- Implemented meticulous unit testing using JUnit and Mockito, reducing code defects by 15% and ensuring reliable API delivery and optimal system performance.
- Gained valuable hands-on experience in backend development, effectively integrating core Spring frameworks with database management tools for improved data access and processing efficiency.

Projects

Vaccine Management System | *Java, Spring, MySQL*   **January 2022**

- Designed and implemented a scalable Vaccine Management System that streamlined vaccine dose booking processes, resulting in a 40% reduction in user wait times and enhanced overall client satisfaction ratings.
- Developed a scalable Vaccine Management System with web and REST APIs, achieving a 50% increase in booking efficiency and a 99% system uptime rate.
- Enhanced system reliability by 50% through the design and implementation of an API Gateway strategy with synchronous and asynchronous communication support

Hangman Game | *Python 3*   **November 2020**

- Created a Python-based 'Hangman' game utilizing advanced programming techniques like string manipulation and exception handling, delivering robust gameplay and dynamic word generation.
- Devised a modular Python program with enhanced readability, leveraging algorithms for dynamic word generation and progress tracking.
- Implemented a file-based system for dynamically selecting words for the Hangman game, ensuring a diverse range of vocabulary while maintaining flexibility to easily update or modify the word list.

Technical Skills

Expertise in Programming Languages: C, C++, Java (J2EE, J2SE), Python, R, HTML, JavaScript, TypeScript, PHP
Frameworks: Spring Framework, Hibernate
Databases: MySQL, PostgreSQL, MongoDB
Proficient in Web Development: REST APIs, React.js, Spring Boot, Microservices
Cloud Technologies: AWS
Machine Learning Libraries: Scikit-learn
Tools: Jira, GitHub, Postman, Maven, IntelliJ, Jupyter Notebooks, Linux
Testing Frameworks: JUnit, Mockito

Professional Recognition

- Received formal client appreciation and a LinkedIn recommendation from both clients and team leads for delivering high-quality solutions and demonstrating strong problem-solving skills at Epam Systems.