

USHMITHA RAVILLA

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EDUCATION

- Clemson University, Clemson, SC**

Master of Science, Computer Science
 - Coursework: Software Design, Software ArchItecture, Cloud Computing, Deep Learning, Computer Security
 - Jawaharlal Nehru Technological University**

B. Tech, Computer Science Engineering
 - Coursework: Algorithms, Data Structure, DBMS, Operating Systems, Design Patterns
- May 2023

GPA: 3.9
- 2015 - 2019

GPA: 3.4

SKILLS

Languages: C, C++, Java, Python, C#
Web Technologies: HTML, CSS, JavaScript, jQuery, .Net, Angular, NodeJS, PHP, ReactJS
Frameworks: Hibernate, Spring MVC, SpringBoot, Web Services (SOAP, REST)
Database: Oracle, MySQL, PostgreSQL, MongoDB
Testing Tools: JUnit, Soap UI
Cloud Platforms and Services: AWS, AWS EC2, S3, lambda, Dynamo DB, ELB, Azure

WORK EXPERIENCE

- GRADUATE ASSISTANT | Clemson University, Clemson, SC**

May 2022 - Present
 - Developed responsive web designs using **C#** and **.NET**, adapting to diverse devices for a consistent user experience, improving Page Load Time by 20%.
 - Constructed a neural network model in **Python** for color correction, showcasing challenging **Algorithm Complexity** and achieving 90% Model Accuracy.
 - Leveraged **AWS S3** buckets to store color-corrected images, resulting in a Cost Optimization Rate of 30% while maintaining high Throughput and performance.
 - Strengthened cloud applications by integrating **IAM roles**, encryption, and best security practices, addressing Data Security and Compliance challenges.
 - Optimized performance by applying code refactoring and caching, enhancing application speed and reducing Page Load Time by 15%.
 - Routinely conducted performance testing, refining features based on feedback and maintaining a bi-weekly Feature Update Frequency.
 - SOFTWARE DEVELOPER | Netcracker Technology Solutions Pvt Ltd, Hyderabad, India**

Jul 2019 - Dec 2021
 - Modernized the core product for over 60 million users, enhancing scalability and performance with **Spring MVC**, **Java**, **Delphi**, and **Oracle**, boosting user engagement by 25%.
 - Integrated **Angular** with UI Bootstrap for dynamic front-end components, and employed **J2EE principles** and design patterns like **Singleton** for efficient back-end development.
 - Optimized data transformation by extracting from **Oracle**, converting to **JSON**, and streaming via **Kafka**, improving data processing efficiency by 40%.
 - Incorporated **Kubernetes** for effective **Docker** container orchestration, ensuring rapid Deployment Speed and resource optimization.
 - Conducted extensive code reviews and collaborated with peers, ensuring high-quality outputs and efficient Code Review Feedback Incorporation.
 - Managed complex integrations with **Angular** and **Java**, maintaining stability for major telecom clients like Tmobile and Verizon.
 - ASSOCIATE SOFTWARE DEVELOPER | Netcracker Technology Solutions Pvt Ltd, Hyderabad, India**

Jan 2019 - Jun 2019
 - Improved **CI/CD** infrastructure using **Jenkins**, **Git**, and **Agile Scrum Practices**, enhancing project efficiency and accommodating rapid technological advancements.
 - Refactored monolithic applications into **microservices** hosted on **AWS**, achieving a 40% speed boost in development and handling a 47% user load increase during peak times.
 - Efficiently implemented **Spring Batch** jobs for parallel processing of large data sets, reducing overall job execution time by 40%.
 - Seamlessly integrated **RESTful APIs** with **Angular** and **NodeJS**, optimizing API response time and handling error scenarios effectively.
 - Addressed **JIRA** issues and bugs during integration testing phase, enhancing application stability and ensuring consistent data across the software.
 - Utilized **Angular** to make service calls, extensively testing controllers and demonstrating adaptability to evolving web technologies.
 - WEB DEVELOPER | Amazon, Hyderabad, India**

Jan 2018 - Nov 2018
 - Implemented **Hibernate** for persistence and transaction management, enhancing seamless ORM communication between applications and databases.
 - Employed **C#** and **.NET** to enhance complex features, resulting in a notable 16% surge in user engagement.
 - Executed performance optimization strategies like **caching**, lazy loading, and **database query fine-tuning**, reducing page load time by 30% and server requests by 23%.
 - Conducted comprehensive **end-to-end testing** using **JUnit** and ensured web applications and **APIs** met stringent usability and functionality criteria.
 - Developed a **Spring MVC** and **Hibernate**-based web application, streamlining peer-to-peer sales with in-app messaging, order tracking, and user following capabilities.
 - Addressed challenging experiences in **mobile responsiveness** and **cross-browser compatibility** while integrating new technologies into legacy systems.
 - Used **AppDynamics** to provide real-time application monitoring, resulting in a 30% reduction in mean-time-to-detect (MTTD) critical performance issues.
- ## ACCOMPLISHMENTS
- You Have Made the Difference Award at Netcracker**
 - You Have Made the Difference Award at Netcracker**

2020

2021
- ## CERTIFICATIONS
- Oracle Certification in Java 8 (Oracle Certified Associate)
 - Certified as an RPA (Robotic Process Automation) Developer from UiPath
 - Salesforce Certification