Harsh Tiwari

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EDUCATION

Arizona State University **Tempe, AZ, USA**
MS in Computer Science GPA: (4.0/4.0) *Aug 2022 - May 2024*
SRM Institute of Science and Technology **Chennai, TN, India**
BS in Information Technology GPA: (3.8/4.0) *Aug 2016 - May 2020*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C#, HTML, CSS
Libraries and Frameworks: Spring Boot, ReactJS, .NET, D3.js, Log4j, TensonFlow, Keras, SciKit Learn
Tools and Technologies: AWS, Azure, Git, Docker, Kubernetes, Jenkins, Kafka, Selenium
Databases: MySQL, OracleDB, AWS DynamoDB, PostgreSQL, MongoDB, Firebase

WORK EXPERIENCE

Arizona Health Care Cost Containment System(AHCCCS)
Software Development Research Intern *May 2023 - Apr 2024*

- Augmented a CRM application using C# and .NET framework facilitating seamless collaboration among multiple teams, tripling user capacity with 99.9% uptime record, serving a vast and dynamic user base.
- Implemented API Scaling reinforced by distributed systems and load balancers deployed using Python scripts to optimize performance in healthcare applications, leading to a 20% boost in operational efficiency for providers.

Oracle Cerner
Senior Software Engineer *Nov 2021 - Aug 2022*

- Architected 10+ services for CRUD operations to manipulate patient details using Java, Spring Boot and RestAPI.
- Automated end-to-end transaction posting workflows in the Revenue Cycle department for distinguished healthcare platforms using Docker, Kubernetes, Kafka and OracleDB increasing efficiency by 40%.

Oracle Cerner
Software Engineer *Jul 2020 - Oct 2021*

- Refactored 450+ lines of code and uplifted the Modify transaction window from Terra UI and ReactJS to Java SWT transforming desktop-based applications reducing massive server cost.
- Enhanced EJS for MySQL database connectivity using optimal design patterns accelerating the remittance and payment process by 40%.

Oracle Cerner
SDE Intern *Jan 2020 - Jun 2020*

- Engineered and deployed a Maven-based enhancement via Jenkins CI/CD pipelines and automated vertical regression testing with Eggplant and Selenium ensuring robust quality control, achieving 95% code coverage.
- Implemented Microservices on AWS and leveraged OOP paradigms and Java features to develop scalable services for thousands of healthcare providers.

PROJECTS

- **AWS Image Processing Application**:
  Utilized AWS IaaS to craft an Image Processing application, dynamically scaling EC2 Instances for seamless user experience. Users effortlessly upload images, receiving processing results promptly. The application autonomously handles App Tier instance scaling, ensuring optimal performance at all times.
  Services used: AWS EC2, AWS SQS, S3, Autoscaling
- **Patterns of Life – Data Visualization: d3.js**
  Built an interactive exploratory dashboard that can be used to analyze and visualize important insights in response to VAST-Challenge 2022 dataset. This was to predict patterns in the lives of residents in relation to the economic aspects of the city.

CO-CURRICULAR ACTIVITIES

- Led a team of 100+ students to conduct the 3rd edition of SRM National Hackathon.
- Gave a lightening talk at PyCon India about Deep Learning techniques used in Narcotics detection.