RUCHIT BHARDWAJ

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EDUCATION

Master of Science in Computer Science <div align="right">**Exp. May, 2023**</div>
University of Southern California, Los Angeles, California, USA

Bachelor of Engineering in Computer Science <div align="right">**May, 2019**</div>
Shri Ramdeobaba College of Engineering and Management, Nagpur, India <div align="right">**GPA: 9.89/10**</div>

TECHNICAL SKILLS

- **Programming**: Java, Spark, Python
- **Frameworks**: Jersey RESTful Web Services Framework (JAX-RS Implementation), Django
- **Web Technologies**: HTML5, CSS3, JavaScript
- **Databases**: PostgreSQL, Oracle
- **Others**: AWS, Maven, Shell Script, Batch Script, IDEA IntelliJ, TeamCity, BitBucket, PgAdmin

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PROFESSIONAL EXPERIENCE

ZS Associates India Pvt. Ltd. *Pune, Maharashtra, India*
Software Engineer - Applications *July 2020 - July 2021*

- Coordinated with clients to identify their goals and needs and developed backend REST APIs using JAX-RS implementation of the Jersey Framework to cater to the client requirements.
- Identified and fixed security vulnerabilities in the application, thereby making the application hacker-proof, robust and resilient.
- Created and managed TeamCity builds to automate the clean-up of logs and cache, thereby improving the API performance times by 50

ZS Associates India Pvt. Ltd. *Pune, Maharashtra, India*
Software Engineer - Test *January 2019 - June 2021*

- Revamped the Test Suites to automate repetitive tasks using a Behavioral Driven Development strategy i.e. Cucumber Framework covering 90% of the product features.
- Performed functional testing of features that included close interaction with Amazon Web Service such as S3, EMR, CloudWatch.
- Attained in-depth insight into industry-accepted practices such as Agile Methodology and Software Development Life-cycle.

Indian Institute of Technology, Bombay *Mumbai, Maharashtra, India*
Software Developer Intern *May 2018 - July 2018*

- Developed a framework to map CC architecture to DSpace architecture.
- Leveraged the xhtml2pdf library in python to create an application, DSpaceX, that standardized the articles in Collaborative Community to PDFs. Created automation suites using Selenium for product maintainability purposes.

ACADEMIC PROJECTS

Medical Analyzer in AR (M.A.V) - Vuforia, Unity Game Engine, Numpy, Tensorflow, Keras, OpenCV, Arduino Uno
Spearheaded the development of an Augmented Reality module that allowed the 3D projection of human anatomy to enable doctors to view the patient's vitals in a more accurate fashion. Tweaked an object detection module to tailor it towards identifying hospital equipment.

AI Smart Mirror Prototype - Wit.ai, Python, OpenCV, ffmpeg, NLG
Implemented an AI module to work as a personal smart assistant. Used NLP to establish interaction between humans and the AI Bot. Leveraged the service wit.ai to train the AI Bot.

Tribal Tourism - Java, XML, Firebase, Android Studio
An app developed to promote tourism in Tribal areas by tribal people. The idea was to allow any tribe to use this to promote their locality, business ventures, local homestays, tribal tours, and cultural performances in tribal areas/villages.

OER Repository in Dspace for Collaborative Community Portal - Django, Python, REST APIs, Selenium
Developed a framework to map Collaborative Community architecture to DSpace architecture. Leveraged the xhtml2pdf library in python to create an application, DSpaceX, that standardized the articles in Collaborative Community to PDFs. Created automation suites using Selenium for product maintainability purposes.

RESEARCH WORK

- Mirr-Active: An Artificially Intelligent and Interactive Mirror - International Conference on Advanced Computation and Telecommunication (ICACAT)
- Amortized Complexity Analysis for Red-Black trees and Splay Trees - International Journal of Innovative Research in Computer Science and Technology (IJIRCST)
- Security in Distributed Systems - Journal of Analysis and Computations (JAC)