

Ruchit Bhardwaj

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EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE

UNIVERSITY OF SOUTHERN CALIFORNIA,
LOS ANGELES, CALIFORNIA
Exp. May 2023

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE

SHRI RAMDEOBABA COLLEGE OF
ENGINEERING AND MANAGEMENT,
NAGPUR, INDIA
Batch of 2019 | CGPA: 9.89

RESEARCH WORK

IEEE

Mirr-Active: An Artificially Intelligent Interactive Mirror

Bahendwar I.A., Bhardwaj R.P.,
Rathod V.S., Hindaria S.S.
(2018) International Conference
on Advanced Computation and
Telecommunication (ICACAT),
978-1-5386-5367-8

JAC

Security in Distributed Systems

Naidu D., Bahendwar I.A., Bhardwaj R.P.,
Singh A.M., (Volume 8, Issue 2, February
2019), Journal of Analysis and
Computations (JAC), 0973-2861

IJRCST

Amortized Complexity Analysis for Red-Black trees and Splay Trees

Bhardwaj R.P., Bahendwar I.A., Mundada
S.G., (Volume- 6, Issue-6, November-2018),
International Journal of Innovative
Research in Computer Science &
Technology (IJRCST), 2347-5552

TECHNICAL SKILLS

PROGRAMMING

Java • Spark • Python

FRAMEWORKS

Jersey RESTful Web Services Framework
(JAX-RS Implementation) • Django

WEB TECHNOLOGIES

HTML • CSS • JavaScript

DATABASES

PostgreSQL • Oracle •

OTHERS

AWS • Maven • Shell Script • Batch Script •
IDEA IntelliJ • TeamCity • BitBucket •
PgAdmin

EXPERIENCE

ZS ASSOCIATES INDIA PVT. LTD.

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%.

SOFTWARE ENGINEER - TEST | JANUARY 2019 - JUNE 2020

- 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

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.

PROJECTS

NAGPUR UNIVERSITY E-NOTICE

Built an android app using Android Studio, CSS, JavaScript, PHP and Firebase for generation and distribution of notices within Rashtrasant Tukdoji Maharaj Nagpur University. The app is available on Play Store with over 100+ downloads.

DEVICE AUTOMATION AND CONTROL BY USING ESP8266 (DACE)

Developed an IoT-based device using ESP8266 Wi-Fi module, capable of taking temperature readings and controlling electric devices such as DC motors. Scripted an Amazon Alexa skill to control smart devices via voice command.

MIRR-ACTIVE : AN ARTIFICIALLY INTELLIGENT SMART MIRROR

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 | SMART INDIA HACKATHON 2018 FINALS

Developed 3 android apps that worked in tandem to bolster tourism opportunities in tribal and north-eastern parts of the country. Created a shared database along all the three apps using Firebase.

MEDICAL ANALYZER IN AR (M.A.V) | FINAL YEAR PROJECT

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.