

# SUYOG DHARMADHIKARI

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## WORK EXPERIENCE:

### **Software Development Intern/Co-Op**

**May 2022 - Present**

**Lexis Nexis Risk Solutions, Raleigh, North Carolina, US**

- Worked on a SaaS application hosted in AWS with customers in the Mutual Funds sector.
- Developed Java-based automation scripts for testing the end-to-end flow of the application using Java libraries like Serenity and PDFbox using the Cucumber BDD framework.
- Developed a proof of concept for automation pipeline using Playwright framework and compare with Serenity framework.
- Created a Jenkins pipeline for testing e2e automation flow and assisted with the migration from Jenkins to GitHub Actions.

### **Development Engineer, Research and Development Team,**

**April 2020 – March 2021**

**Reva Energy & Equipment Pvt. Ltd, Pune**

- Developed a Web and Android application to operate numerous household appliances (IoT devices).
- Designed and developed an Unmanned Aerial Vehicle (UAV) frame and a flight controller (Agricultural/Civil survey)
- Led a group of interns, client meetings/presentations, and demos working in the R&D department.
- Organized meetings and demos for prospective clients to increase the number of users for both applications.

### **Systems Engineer, Infosys Ltd., India**

**November 2017 – April 2019**

- Converted legacy systems to apps based in Java, aiming at migrating from monolith to Microservices-based architecture.
- Implemented and maintained applications in the Mainframe system for financial services.

## EDUCATION:

### **North Carolina State University**

**August 2021 – May 2023**

Master's in computer science

**CGPA: 4.0/4.0**

Design and Analysis of Algorithms, Software Engineering, Database management systems.

### **University of Pune, Pune, India**

**August 2013 – June 2017**

Bachelor of Engineering in Electronics & Telecommunications

**CGPA: 3.65/4.0**

Object-Oriented Programming, Soft computing, Data structures

## TECHNICAL-SKILLS:

- **Languages:** Python, Java, JavaScript, COBOL, R programming.
- **Packages and Libraries:** Pandas, Numpy, Serenity, PDFbox, Playwright, Sci-Kit learn, Matplotlib, Beautiful Soup
- **Tools and technologies:** IntelliJ, Virtual Studio Code, Bitbucket, JIRA, REST API, Eclipse, Jenkins.
- **Database:** Postgres SQL, MySQL, DB2.

## COURSES:

Design and analysis of Algorithms, Database and Management Systems, Artificial Intelligence-1, Introduction to Data Science,

Association Analysis, Statistical Inference, Explore Machine Learning, Exploratory Data Analysis, Overview of Azure AI.

## COURSE PROJECTS:

- **OnTrack bot [JavaScript, PostgreSQL, Ansible, REST API]:** OnTrack is a Mattermost bot that automates Trello workflow using text instructions. The bot was developed using NodeJS. User information was stored in a Postgres SQL database. Trello's REST API was used to communicate with the bot and Trello app. Ansible playbooks were used to deploy the bot on the server. Ansible playbook was used to clone the bot from GitHub repo and run on the server, install python packages, install, and initiate Postgres SQL and initiate *forever* package.
- **Ticket booking system [Python, Oracle 11g]:** Implemented modules for booking cinema tickets, adding money to the wallets, and checking restaurants in the area.
- **Anomalous Climate Pattern Detection [Python, Jupyter Notebook, Machine learning]:** Developed a time series-based anomaly detection model that detects erroneous data points in 40M weather data points. Performed statistical and exploratory data analysis to infer special and temporal insights. Finished 5th amongst 30 teams contested in this problem statement with 96% precision-recall score by tuning hyper parameters between RF, XGBoost and Bidirectional LSTM.
- **Loyalty rewards database application [MySQL, JDBC, JAVA swing]:** Worked on Oracle MySQL to design database for multiple brand loyalty programs. Developed database triggers to invoke procedures to check constraints and validations for data.
- Using the Oracle MySQL database, I implemented a database for multiple brand loyalty programs, for customers to enroll and receive rewards. Incorporated database triggers to invoke procedures for checking constraints and validations.

## AWARDS & Recognitions:

- Insta award at Infosys for picking up the domain quickly with good technical knowledge and teamwork
- Ranked 2nd in a National level Pick and Place robotics competition in India conducted by VJTI, Mumbai at Technovanza 2015.