Suraj Devatha

Raleigh, North Carolina

(919)-501-1933 | sdevath@ncsu.edu

linkedin.com/in/surajdm

github.com/surajdm123

EDUCATION

Master of Computer Science — August 2021 - May 2023 (expected)

North Carolina State University, Raleigh, NC — CGPA - 4.0/4.0

Courses: Design and Analysis of Algorithms, Software Engineering, Automated Learning and Data Analysis

Bachelor of Engineering in Computer Science and Engineering — August 2015 - June 2019

B N M Institute of Technology, Bangalore, India — CGPA - 8.76/10.0

Courses: Data Structures, Operating Systems, Networks, Cloud Computing, Database Management Systems

SKILLS

Languages :	Java, Python, C, C++, C#, Bash, Javascript, SQL
Databases :	MySQL, OracleDB, SQLite, MongoDB, Elastic Search, Amazon RDS, NoSQL
Web Technologies :	Spring Boot Framework, Flask Framework, HTML, CSS, jQuery, Boostrap, PHP
Other Tools :	ELK Stack, Jenkins, Git, Android Studio, Jaspersoft Studio, JUnit Testing, Linux, Maven, Gradle

EXPERIENCE

Graduate Teaching Assistant, North Carolina State University — August 2021 - Present

- **Mentoring 60+ students** to understand concepts in C#, object oriented programming, data structures, database management systems and GUI design.

Senior Software Development Engineer, Perfios Software Solutions Pvt. Ltd. — July 2019 - July 2021

1) Report Scheduler

- Developed a centralized MIS reporting engine using Spring Boot to automatically generate and deliver product usage reports to the clients and hosted the application in Amazon EC2 Instance.
- **Reduced manual efforts by 60%** for the Support team by automating the process of sending alerts to the clients.
- Optimized algorithms to **reduce the computation time and lines of code by 80%**, using Java libraries like Google Guava and Apache Commons.
- **Improved code coverage by 40%** and ensured continuous operation of **test systems and build** by configuring CI/CD pipeline with Jenkins.

2) Product Analytics

- Automated a **data pipeline**, using python and shell scripts, to push **500,000+ records** from MySQL to Elastic Search.
- Automated fraud detection using Watchers in Kibana resulting in **reducing end-to-end process duration by 40%**.

3) Perfios Usage Billing System (PUBS)

- **Reduced overall TAT from 2 days to 1.5 hours** through automation of monthly invoice generation for 200+ clients, implemented using Drools rule engine.
- Devised **REST APIs** to push product and billing details from PUBS to Salesforce.

PROJECTS

WolfTrack - Job Application Tracker | Flask Web Application ([Code](#))

- Designed a stand-alone web application to help users organize, track, and get reminders of their job applications.
- Tech: Flask framework, Python 3, HTML, Bootstrap, CSS, jQuery, Amazon RDS

Foreign Exchange Rate Prediction | Python ([Code](#))

- Devised a forecasting application that analyses time series data and predicts the exchange rate of INR against USD, using ARIMA model, with an accuracy of 86%.
- Tech: Python 3, Numpy, Pandas, Tensorflow, Keras, Jupyter Notebook

Personalization Cards | Android App Development ([Live](#))

- Developed and published an android application that helps users personalize their phone. The app has over **1000+ downloads on the Play Store**.
- Tech: Java, XML, SQLite, Gradle

Simplii - Task Manager | Flask Web Application ([Code](#))

- Implemented a web application that helps users add tasks and organise them using tags. The app also has the ability to remind users about important deadlines.
- Tech: Flask Framework, Python 3, HTML, Bootstrap, CSS, jQuery, Amazon RDS

PUBLICATIONS

- "Obstacle Detection for the Visually Impaired Using Arduino", International Conference on Trends in Electronics and Informatics (ICOEI), 2019 (Publication: **IEEE Xplore**). ([Link](#))
- "Survey on Sentiment Analysis", International Journal Of Engineering Research and Technology (**IJERT**), Volume 08, Issue 04, April 2019.([Link](#))
- "Conversational Assistant based on Sentiment Analysis", International Research Journal of Engineering and Technology (**IRJET**), Volume 06. Issue 09, September 2019.([Link](#))

ACHIEVEMENTS & AWARDS

- Received an **Award of Excellence** for integrating reporting engines from different servers into 'Report Scheduler' as per the timeline published to end customers at Perfios.
- Received the **'Most Innovative Project'** award and multiple other **Academic Awards** at BNM Institute of Technology.