

SAAHITH HEGDE

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EXECUTIVE SUMMARY:

Technically savvy software engineer with focus on Full Stack Development. Solid experience in Web Application development using modern technology stacks; Very strong in Frameworks such as Spring Boot, .Net and Angular. Experience in cloud technologies such as AWS.

PROFESSIONAL EXPERIENCE:

Instructor- Computer Science Outreach Program-University of Texas at Dallas

Mar 2020-Present

- Instructor for Full Stack Web Development Classes for over 50 students.
- Conducted 4 workshops as part of the outreach program.

SWE (Full Stack) - Univva Business Solutions Pvt Ltd - Bangalore, India.

Sept 2017-Jan 2019

- Architected, designed and developed the core engines of USCAN, a web application that provided smart customer analytics solutions which enabled quick decisions based on actionable insights, improved operations, customer services and risk management.
- Utilized **Angular and .NET** stack. The outcome of this project improved the sales by 2x and reduced operations time by 70 percent.
- The core engines of the product crawled data from automotive portals and performed analytics. The crawlers were designed to be 60% dynamic to changes on the website and used least amount of server resources.
- Worked on implementing ingestion service to push data into the database; Defined data models, performed data mapping, wrote Wrapper Classes and queries using **MongoDB**.
- Worked on front end dashboards that displayed customized results in the form of charts and graphs using **angular framework**.

OPEN SOURCE PROJECTS:

Twitter Sentiment Analysis:

March 2020 - May 2020

- Developed an **ELK stack** application that crawled 0.5 million live tweets, streamed through **Kafka** and analyzed through **Spark Streaming** and **Stanford-Core-NLP**, the data was pushed to **Elastic Search** and results were displayed using **Kibana** under 15 seconds.

NLP-Information Extraction:

March 2020 - May 2020

- Architected, designed and developed an NLP pipeline to extract information into templates from general wikipedia articles using **AllenNLP, Spacy, NLTK, TensorFlow, Pytorch and StanfordNLP**.
- The model took 1 minute to obtain valuable data and was 90% accurate.

Stockbroker Application:

Oct 2019 - Dec 2019

- Architected, designed and developed a Full Stack application that provides users with an easy way to buy and sell stocks. The application was developed using **Angular 8, Spring Boot, Hibernate, RabbitMQ and MySQL**.
- The application also provided Reliability using queuing, Fast page load times using caching and compression, SSO, scheduling of stocks, adding bank accounts, wallet options and security at different levels.

Recommendation of Location Specific Crop:

Aug 2018 - April 2019

- Architected, designed and developed an application to predict and recommend a location specific crop using **Python, Pandas, TensorFlow, ANN (Relu function), Decision Tree, Cluster Analysis and Flask**.
- The application used climate, rainfall pattern and soil profile data provided by the National Bureau of Soil Survey and Land Use Planning.
- Accuracy of models were close to 92 percent and models were generated under 30 minutes.

Resnal:

Feb 2018 - April 2019

- Architected, designed and developed a Full Stack application to crawl 0.1 million student grades from the university website and performed analysis on the data to provide various insights into students, class and college performance.
- The application utilized **Beautiful Soup4, PythonOCR, Angular Framework, ChartJS and Django**.
- This application enabled teachers and professors an easy and quick way to evaluate individual students and entire classes.

Registration Scanner:

April 2019

- Architected, designed and developed an **Android** application which enabled image capture, processing and OCR of vehicle registration cards.
- The application provided details of the owner, checked for validity, authenticity and traffic violations on the registration numbers.
- The application utilized **Rekognition, S3, EC2 AWS services**. The pipeline took 5 seconds with 85% accuracy.

SKILLS:

Languages: Java, Python, C#, C, PHP, SQL, JavaScript.

Frameworks: Spring Boot, Hibernate, .NET, Flask, Angular, jQuery, AJAX, Hadoop, Spark, Spark-Streaming, Android.

Other Technologies: Spacy, TensorFlow, NLTK, Git, AWS, Stanford-Core-NLP, Kafka, Firebase, mongoDB.

EDUCATION:

- MS in Computer Science, **University of Texas at Dallas, USA**

GPA:3.89; Expected Graduation-May 2021

- BS in Computer Science and Engineering, **Visvesvaraya Technological University, India**

GPA:3.8; 2019

CERTIFICATIONS:

- **AWS Udemy Certified Developer - Associate 2020**
- **Spring Framework for Beginners with Spring Boot Udemy**