SAIKUMAR SUVANAM

15401 NE 10th ST, E207, Bellevue, WA-98007 | (469)655-7421

http://linkedin.com/in/suvanamsaikumar | https://saikumarsuvanam.github.io

EXPERIENCE

Senior Software Engineer, Amazon, Seattle (USA), Bangalore (India)   **July 2018 – Present**

- Designed highly scalable microservices for shipping engine using different AWS cloud services resulting in 13% expansion in shipping region coverage and 24% decrease in operational cost.
- Lead the development of expanding to shipping programs such as, Amazon send and ship by region to empower Amazon sellers and the business team in customizing the rules.
- Mentored SDE1s in the team and migrated several key Tier1 Tax and Shipping services to AWS cloud without any delays and errors by optimizing the compute, infrastructure and storage costs.
- Designed the testing framework for handling Jurisdiction region data migration. Build CI/CD pipelines and improved on-call efficiency by adding Amazon profiler and deployment guidelines for the same.
- Proposed and integrated Amazon lex conversational agent using Amazon bedrock Titan Text FM (LLM model) in increasing the WFM catering orders sales by 18%.
- Deprecated the WFM 3P backend technologies to existing Amazon services for WFM catalog data, ETL data pipelines and AWS open Elastic search services to make it more scalable for various programs.
- Conceptualized and developed recommendation feature in Java using topics and incomplete missions of customers to improve recommendations on Amazon fresh instore page leads to an order conversion rate of up to 6% in the USA instore alone along with adding personalized sales flyer.
- Designed language matching and Currency Conversion Amazon APIs in I18N internationalization org enabling language-aware ads for 3P advertisers resulted in increase of retail website traffic by 11%.

Software Engineer Intern, BluAge Corporation, Dallas   **Jan 2017 - July 2017**

- Modernized and Optimized 20k LOC of the Legacy Application to MVC using Spring Boot(Java).
- Enhanced the features of the Accenture Life Insurance application using AngularJS, HTML and CSS.

Software Engineer, Tata Consultancy Services, Hyderabad   **Dec 2012 - Aug 2015**

- Developed multiple business logic components for the ICICI Bank Web application using Spring MVC along with deploying RESTful Web services to support various scoring models within the Loan Management module.
- Developed the credit risk rating System (5 C's) for measuring the risk involved in the client transactions.
- Saved $15000 annually by presenting and implementing a POC for improving the attrition score

AWARDS AND ACHEIVEMENTS

- Received the People's Choice Award at the Amazon WFM Hackathon for enhancing the shopping experience.
- Received TCS on the spot award for the remarkable contribution to the team in the project for presenting POC.
- Received SRM Merit based scholarship for outstanding performance in intermediate education.
- Published a paper in International Journal of Engineering Science and Technology ISSN : 0975-5462 Vol. 3.

EDUCATION

University of Texas at Dallas, Richardson, TX   **May 2018**

Masters in Computer Science   **GPA-3.8/4.0**

Related Coursework**:** Design & Analysis of Algorithms, Operating Systems, Web programming, Database Design, Big Data & Analytics, Natural Language Processing, Machine Learning, Video Analytics, Artificial Intelligence.

SRM University at Chennai, India.   **May 2012**

Bachelor of Technology, Electrical and Electronics Engineering   **GPA-8.5/10**

ACADEMIC PROJECTS

Big Data-Deng AI: Predicting Disease Spread (*Hadoop, Apache Spark, Mllib*)   **November 2017**

- Developed ML Pipeline model to predict the number of dengue cases based on environmental variables. (Git)

Implementation of Advanced Data Structures and Algorithms (*Java*)   **October 2017**

- Implemented various advanced data structures such as Segment trees, Skip Lists, RBL, AVL, K-dimensional trees. Designed Multi-Dimensional Search and Maximum reward collection on a large graph data set. (Git)

Natural Language Processing (*Python, Solr, NLTK, Stanford Core NLP*)   **September 2017**

- Developed semantic search in Solr with keyword based using deeper NLP techniques. (Git)

TECHINICAL SKILLS

- **Front End Development:** ReactJS, JavaScript, HTML, CSS, Bootstrap, NodeJS, AngularJS**,** AJAX, jQuery
- **Back End Development:** Java, C++, Python, PHP, Spring Boot, Flask, Django, Guice, Android (mshop Amazon)
- **Cloud:** AWS Services - DynamoDB, SQS, SNS, Lambda, EC2, RedShift, S3, Kubernetes, Docker, Route53, RDS, Aurora and Data sync | **Databases:** MySQL, NoSQL, Oracle, Postgress
- **Big Data & Machine Learning, NLP:** Apache Spark, PySpark, Hadoop, Hive, MLlib, scikit-learn, NLTK, Solr.
- **Miscellaneous:** Large Scale design, API design, Performance optimization, Distributed and Parallel Architecture.