

## NAGATHEJA SHARAF

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### EDUCATION

**Indiana University Bloomington, LUDDY School of Informatics, Bloomington, IN**

Aug 2021 - Dec 2022

Master of Science, **Computer Science**

GPA: 3.8/4.0

**K L University**, Vijayawada, India.

Jun 2015 - May 2019

Bachelor of Technology, **Computer Science and Engineering**

GPA: 8.2/10 (3.8/4.0)

### TECHNICAL SKILLS

**Programming Languages:** Node JS, React JS, Python, C, C++, Java, JavaScript, SQL, Bash, Object Oriented Programming.

**Databases:** Database Management, MySQL, Oracle, MongoDB, DynamoDB, Elastic Search.

**Cloud Technologies:** GCP, AWS, Azure, Docker, Kubernetes, S3, EC2, Lex, Lambda, SNS, SQS, Athena, CloudWatch, API Gateway.

**Softwares:** Git, Bit bucket, Jenkins, Visual studio code, Eclipse, JIRA, MATLAB.

**Tools & Frameworks:** Tableau, Autodesk, RabbitMQ, Redis, Kafka, Restful implementation, Microservices, Design patterns, Flask, Django, Linux, Multithreading, Service Now.

### EXPERIENCE

*Software Developer Intern*, **Amazon**, Seattle, Washington, USA

May 2022 - Aug 2022

- Upgraded an AWS Lambda Python service and integrated it into a code pipeline to better understand the Lambda service. This experience allowed me to explore the power and flexibility of this cloud-based computing service, and I gained valuable insights into how it can be used in various software development scenarios.
- Developed a pattern-matching algorithm using the Levenshtein distance and Metaphone algorithm. The algorithm can identify an error threshold between two English sentences and suggest potential corrections. This challenging project required a deep understanding of natural language processing, algorithms, and software development principles.
- Improved the system for matching words and names with similar sounds. This involved handling phonetic words and calculating the dissimilarity of strings in a sentence. This approach can help ensure that sentences are correctly parsed and understood, and it resulted in a more accurate and effective system for matching words and names with similar sounds.

*Software Developer*, **EUNIMART**, Hyderabad, India

Aug 2019 - May 2021

- I am a Python and Node.js developer with hands-on experience in SQL, Linux, Git, and microservices frameworks. My expertise in these technologies has given me a strong foundation in software development principles and best practices, allowing me to design and implement effective solutions that meet the needs of my clients and stakeholders.
- Designed a microservices architecture and implemented orchestration and choreography models for an e-commerce platform. This involved breaking down the platform into smaller, independently deployable services that can be developed and maintained separately, resulting in a more flexible, scalable, and efficient system.
- Developed a database schema design for a marketplace microservice in our e-commerce platform. This involved designing and implementing a database schema that can efficiently store and retrieve large amounts of data, ensuring that the system can handle large volumes of traffic and transactions.
- Integrated various open APIs from Amazon, Flipkart, Bonanza, eBay, etc. into the platform to analyze new orders, products, inventory, and pricing across all regions of the marketplaces. This involved working with various APIs to retrieve and process data, ensuring that the data is accurate, consistent, and up to date.

### PROJECTS

*Airline Reservation System*, **Indiana University Bloomington [Python, Nodejs, Reactjs, Mongo DB, AWS EC2, AWS Lambda]**

- Developed a full-stack airline reservation system utilizing Node.js for the server-side logic, React.js for the user interface, and MySQL for the database management, implementing essential functionalities such as user authentication, payment processing, social media log-in, admin panel, and flight search.
- Implemented RESTful API architecture and leveraged AWS EC2 to host the application, attaching security groups to control inbound and outbound traffic, and configuring a reverse proxy using Nginx for load balancing and security.

*Image Recognition System*, **Indiana University Bloomington [PySpark, TensorFlow, Keras, Scikit-Learn, SVM, CNN, Tuning]**

- Used deep learning techniques such as CNNs for feature extraction and dimensionality reduction.
- Employed machine learning algorithms like SVMs or Random Forests for classification and optimized the model's performance through hyperparameter tuning.

### ACCOMPLISHMENTS

- Integrated multiple marketplaces on the EUNIMART e-commerce platform which is used by the sellers.
- Completed Service now Application Developer certification

Nov 2018