Shishira Kasala Vinayakumar

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EDUCATION

University of South Florida — Tampa, FL
Masters in Business Analytics & Information Systems; GPA: 4.0/4.0 — Aug 2022 - May 2024

Maharaja Institute of Technology — Mysuru, India
Bachelor of Computer Science; GPA: 3.5/4.0 — Aug 2015 - June 2019

SKILLS SUMMARY

- **Languages**: Python, C, SQL, C++, R, Javascript, Java
- **Databases**: MySQL, OracleDB, MongoDB, Amazon RDS
- **Web Technologies & Frameworks**: NodeJS, ExpressJS, Flask, React, HTML, CSS, Bootstrap, ASP.NET
- **Tools**: GIT, JIRA, Android Studio, Postman, Docker, Apache Kafka, Vfimon, Swagger, AWS, Confluence, Keras

EXPERIENCE

Software Engineer I — Bangalore, India
Wipro Ltd, client Telstra — Nov 2019 - June 2022

- Developed 30+ Microservices using REST APIs, resulting in a 45% reduction in response time when making calls to HTTP mock servers by the event handlers triggered in the network automation workflow.
- Built a Timeline docker application in Itential Automation Platform that extends Cisco NSO automation capabilities, aimed for end-users to view the workflow status using MEAN stack, increasing database admin effectiveness by 20%.
- Tech: Node.js, Express.js, Apache Kafka, Vfimon, Swagger, MongoDB, Postman, and Kafka Wrapper.

Software Development Engineer - Intern — Mysuru, India
MDBS — Oct 2018 - Jan 2019

- **Potential gender biases introduced by GloVe:** Conducted research on GloVe word embeddings for automatic student assessment, revealing potential gender biases in the learned associations of words and identifying significant differences in usage within specific clusters, prompting further investigation.
- In the dataset of 1 million responses to open-ended mathematical questions from middle school students, I reduced data loss from 75% to 60% during preprocessing by using the standard nltk library to tokenize answers.
- Tech: Glove, Python, Pandas, K-Means, and Chi-squared test.

PROJECTS

- **BullTrack - Job Application Tracker**: Designed a stand-alone web application to help users organize, track, and receive reminders of job applications.
  - Tech: Flask framework, Python 3, HTML, Bootstrap, CSS, jQuery, and Amazon RDS.

- **Online book store - Serverless application**: Developed a serverless bookstore application that enables users to browse and purchase books. Implemented a pipeline resolver to process payments and create orders.
  - Tech: React, Amplify, AppSync, S3, DynamoDB, Cognito, and AWS Lambda.

- **A Tactile Robust Server for Fake Account Encounters**: Developed an online social networking site, with the purpose of identifying fake accounts and friend requests, while leveraging user mentalities and interests. The application implements predictive algorithms to detect fake user accounts based on user behavior, thereby ensuring a secure and tailored user experience.
  - Tech: ASP.NET, C#, and MySQL.

- **Feature Hunt**: A feature collection platform where users can share, vote, and discuss feature requests. Helped developers collect features for 20+ projects.
  - Tech: JavaScript, React, Python 3, MongoDB, HTML, CSS, and Flask.

- **CIFAR-10 Keras Transfer Learning**: Built an image classifier with the classic CNN architecture VGG, and compared it with Resnet-50 on the standard CIFAR-10 dataset. VGG outperformed Resnet-50, achieving a validation accuracy of 82%, leading to insightful comparisons.
  - Tech: Python, NumPy, Pandas, Keras, and Very Deep Convolutional Neural Networks.

HONORS AND AWARDS

- Presented as a tech speaker at IEEE events, sharing the latest trends and technologies.
- Received Academic Awards from Vasavi Yuvajana Sangha - Prathibha Puraskara 2019 and Vasavi Shree Prashasti 2018.
- Achieved a First Class with 96% in Bharatanatyam - Indian classical dance Junior degree.