Vama Shah

Rochester, NY • shahvamab@gmail.com • (585) 410-7319 • www.linkedin.com/in/vamashah21

Hello! I am a Computer Science Major enthusiastic about problem-solving and working collaboratively in a team.

TECHNICAL SKILLS

Languages: Python, Java, SQL, C/C++, JavaScript, Matlab, HTML/CSS, CypherQL, XML
Database: MySQL, MongoDB, GraphQL, Neo4j
Analytical: ML/AI, NLP, Data Structures and Algorithms
Tools: BitBucket, JIRA, GitHub, Jupyter Notebook, Jenkins, GitHub Actions
Frameworks: Angular, Spring Boot Java, ReactJS, NodeJS, Django, Google Cloud Platform

EDUCATION

Rochester Institute of Technology, Rochester, NY **Jan 2021 - Aug 2023**
Master of Science, *Computer Science* **GPA: 3.71/4.0**
Relevant coursework – *Object-Oriented Programming Concepts– Java, Intro to Big Data, Intro to Machine Learning, Foundations of Artificial Intelligence, Data Structures and Algorithms, Big Data Analytics, Information Text and Retrieval,*

K. J. Somaiya College of Engineering, University of Mumbai, India **Aug 2015 - May 2019**
Bachelor of Technology, *Electronics and Telecommunication Engineering* **GPA: 7.34/10**

PROFESSIONAL WORK EXPERIENCE

Solutions Engineer Intern **May 2022- Dec 2022**
Neo4j, San Mateo, CA

- Involved in full application life cycle including design, development, testing and deployment of customer specific Admin App
- Created Uptime check alerts on Google Cloud Platform for virtual machines thus reducing machine downtime to 4 minutes
- Made Neo4j Learning Platform LTI compliant to enable users on different LMS like Moodle, Canvas to access courses

Software Development Engineer Intern **Jan 2022- May 2022**
MINDEX Technologies Inc., Rochester, NY

- Developed software to process company tax information from **23 states** and reduce tax burden for the companies by **66%**.
- Proposed requirement for priority status of incoming files and implemented it to increase processing speed by **80%**
- Developed new modules and enhanced existing ones to design flow-based solutions between UI and Mongo Database for **client *Paychex*** based on **Agile** methodology
- Validated application code using unit tests to increase code coverage by **90%** for a more robust check on incoming file data

Software Engineer **Nov 2019 – Dec 2020**
TATA CONSULTANCY SERVICES (TCS), Mumbai, India

- In-charge of onboarding **80+ users** and developing Python scripts to automate user-access to in-house Data Science Platform
- Focused on automating specific project requirements to use the platform which included automating the creation of virtual environments with the required set of packages which reduced set-up time by **95%**

PROJECTS

WebApp for analysis of LEGO dataset | *GraphQL, ReactJS* **May 2022**

- Developed a web app to analyse trend in sales of Lego sets
- Represented data using Neo4j and used GraphQL to query data for the analysis
- Leveraged the different aspects of a Lego set- theme, number of parts, color, difficulty level

Neighborhood Evacuation WebApp- https://devpost.com/software/neighborhood-evacuation **Mar 2022**
BrickHack 8

- Developed a web app that allows users to post location determining availability of shelter, supplies or transport
- Technologies used- ***Python, Django web framework***

EmployeeFit Productivity Tool- https://devpost.com/software/employeefit **Feb 2022**
WicHacks 2022

- Implemented a decision tree algorithm to determine work preference of work from home or office and obtained a 76% accuracy for determination of work preference
- Technologies used- ***Python, Mental Health of Employees dataset from Kaggle***

Topic Modelling for Olympic and Fashion News | *Python, SciPy, NLP* **Sept 2021**
https://github.com/vama-rit/Topic-Modelling-for-Olympic-and-Fashion-News

- Identified distinct topics occurring in large sets of documents based on the frequency of words present in them
- Used LDA model to perform modelling and measured the performance using coherence and perplexity
- Identified topics after data cleaning and data pre-processing with 89% accuracy

Optimal Path Generation for Orienteering | *Python* **Feb 2021**

- Found the shortest path between two coordinates on a 3D map by performing the A* search algorithm which is 40% faster than any naïve search algorithm
- Considered optimal path for orienteering considering different types of terrain improving performance by 20%

ASL Gesture Recognition and Conversion from text to speech | ***TensorFlow, Keras, Python, CNN*** **Jan 2019**

- Built and trained a Convolutional Neural Network to recognize hand gestures with 94% accuracy
- Employed image processing techniques to filter incoming hand images and make them easier to train on/get recognized by the neural network.