

# Shreyas Ramkumar Karthik

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## EDUCATION

### Northeastern University

Boston, MA | Sept 2021 - May 2023

M.S. IN COMPUTER SCIENCE (GPA: 4.0/4.0)

**Coursework:** Program Design Paradigms, Databases, Computer Vision and Mixed Reality

**Teacher Assistant (TA):** Foundations of Software Engineering : Helped students build multi-tiered architecture to implement social network called Twitter using Typescript, nodeJS, reactJS and Jest.

### PES University

Bengaluru, India | Aug 2013 - May 2017

B.E. INFORMATION SCIENCE AND ENGINEERING (MAJOR GPA: 9.5/10) (CGPA: 9.03/10)

**Coursework:** Data Structures; Operating Systems; Database Management Systems; Web Technologies; Python

Application Programming; Applied Machine Learning; Data Warehousing and Data Mining; Unix System Programming; Computer Networks

## TECHNICAL KNOWLEDGE

**Languages, Databases:** Java, Python, JavaScript, C, GoLang; MySQL, MongoDB, Elasticsearch, PostgreSQL

**Web technologies:** JavaScript, NodeJS, React, Typescript, Express, Bootstrap, Jest, Postman, HTML, CSS

**Machine Learning:** scikit-learn, OpenCV, Spark, PyCaret, H2O.ai, AutoML, JupyterLab, pyTorch, TensorFlow, Keras

**ML Algorithms:** RandomForest, Extra Trees, XGBoost, K-Means Clustering, Hierarchical clustering, Neural Networks.

**Technologies:** Spring Boot, Git, AWS, GCP, Azure, Docker, Kubernetes, Android Studio, Flutter, LaTeX

## PROJECTS

- Designed and developed a fully working e-commerce website with RESTful services hosting 1000s of products as part of the project in the recently taken DBMS Coursework at Northeastern University.
  - Technologies Used: Javascript, NodeJS, React, Express, MongoDB, Mongoose, Bootstrap
- Developed an interactive GUI based dungeon exploration game in Java incorporating the MVC pattern and core object oriented programming principles.
  - Technologies Used: Java, Swing, Design Patterns
- Designed and developed a blogging web application that allows users to create, manage, and publish content on the internet in the form of blogs and posts.
  - Technologies Used: MySQL, Java, React JS, Spring Boot, Java Persistent API

## WORK EXPERIENCE

### VYMO | SENIOR MEMBER OF TECHNICAL STAFF

Bengaluru, India | May 2019 – Aug 2021

- Designed, developed and deployed **Lead Prioritization** predictive model that helps over 80,000 sales agents prioritize the allocated leads for some of the top financial institutions of India. This improved an Avg. lead's Turn Around Time(TAT) by over 10%.
- Designed and Implemented a real time data pipeline to process unstructured data from 10+ data sources using Kafka.
- Technologies Used:** GoLang, Python, MongoDB, Kafka, AutoML; Sklearn; Spark; ML Transformers;

### ITTAM SYSTEMS | ENGINEER, CVML

Bengaluru, India | Aug 2017 - May 2019

- Developed the **Person Re-identification** feature that helps over 50 stores across the globe identify repeating Customers and Employees in their retail-stores using the top-down images.
- Developed a node backend framework **Retail Analytics Framework** that was designed primarily to generate store insights using the retail-store data attained by an IoT device. This is deployed across 50 stores and 150 installations across the globe.
- Technologies Used:** JavaScript, NodeJS, MongoDB, MySQL, Docker