

AakritiSingh

Software Engineer | New York

Contact

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Languages, Software & Tools

Java, Kotlin, JavaScript

Python, Kafka, Docker

Typescript, React

Elixir, HTML/CSS

C++, Kubernetes, Snowflake

kafka, SQL, GraphQL

SQL, JUnit, PHP

Linux, MATLAB, CosmosDB

IntelliJ, VSCode

Achievements

Finalist in **Smart India
Hackathon'18**

Recipient of **HWCOE
achievement award** at the
University of Florida

Coursework

Machine Learning

Advanced Data Structures

Analysis of Algorithms

Computer Vision

Programming Language

Principles

Penetration Testing

Mathematics for Intelligent

Systems

Distributed Operating Systems

Software Verification and

Testing

Soft Skills

Leadership

Analytical Approach

Problem-solving Mentality

Excellent Communication Skills

Organizational Skills

Quick Learner

Project Management

Experience

Wonder

Associate Software Engineer II

2021 - 2022

- Worked on **implementing** and **maintaining** an internal tool that processes and stores the data produced by ML models, which help business better plan inventory production, procurement and scheduling.
- Implemented robust **RESTful backend API** in **Kotlin** to be used by other downstream systems. Used **Snowflake** and **MySQL** to store data.
- Built **GraphQL API** to query and mutate data for use in downstream inventory management system and the system's frontend.
- Helped in creating a **UI** that enables stakeholders to view and manipulate the final production data, using **Typescript, React, HTML, CSS**

KIET ERP

Android Developer

May 2018 - Dec 2018

- Improved old features and **added new features** like attendance tracker, library management, events schedule, and news for the **college portal** mobile application which has over **5,000** users including students and professors.
- Tested every functionality to ensure **zero defects** and proper functioning after the development.

Projects

Nov 2020

Movie Recommendation Using Movie Posters

- Implementation of a **movie recommendation system** that uses movie posters to recommend movies to the users.
- The system implements **Unified Visual Contents Matrix Factorization** and **CNN** to make the recommendations.

Feb 2020

Twitter Simulation

- Developed a twitter-like engine in **Elixir** using the **Phoenix framework** for creating **WebSockets** and communicating requests/responses between processes that simulates all the Twitter functionalities like post a tweet, register, follow and show mentions/hashtags.
- Used **JavaScript** and **CSS** to create the frontend.

Sept 2019

Tapestry Algorithm

- Implemented a routing algorithm called **Tapestry Algorithm** proposed in a paper published in **IEEE**, by using the **GenServer** module in **Elixir**.
- Completed **performance testing** to test its resilience & usefulness using various **test cases**.

March 2018

Nutbit

- Collaborated with an **Agile-Style team** to design, develop and test a **robust, efficient, and scalable Android mobile application** using **Java** that helps in reducing food wastage by **80%** in college dining halls.
- The app consists of both a **student UI** and a **worker UI** that takes responses from students beforehand and shows the processed data to the dining hall workers.

Education

Master of Science, Computer Science

University of Florida, Gainesville

2019-2021

Bachelor of Technology, Information Technology

KIET Group of Institutions, India

2015-2019