Prakhar Srivastav

Specialist Software Engineer

Experienced Software Engineer with a demonstrated history of working in the information technology. Focused on backend development and data science.

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📍 Bangalore, India

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WORK EXPERIENCE

Specialist Software Engineer
Societe Générale Global Solution Center

06/2018 - Present   *Bangalore, India*

Achievements/Tasks

- Created an application to enable the reconciliation process of the Trades with the existing Accounts. The application was developed in Java and exposed several APIs to complete the reconciliation task. The application removed the dependency on Business Users to manually perform the task.
- Contributed to an internal startup by developing a module for their B2C platform. The module served as a back office and was integrated into their existing Microservice application. It enabled onboarding of merchants/buyers on the platform and took care of the platform fee along with the commission payable to the merchants for their services.
- Automation of L1/L2 support activities. The automations eliminated the possibility of human error and led to a significant reduction in the workload of the team. Used Docker/Kubernetes for containerisation and deployment of the APIs.

PERSONAL PROJECTS

Illumination Invariant Background Subtraction
- Designed a background modelling and subtraction algorithm with high sensitivity to dynamic changes in the background of the footage.
- The model effectively handles static as well as dynamic changes in the background along with varying illumination caused throughout the day.
- This project will be critical in key applications of Image Processing like surveillance systems, which are highly dependent on background subtraction.

Optimization of Airport Taxi Route using Genetic Algorithm
- The algorithm optimized landing schedule and assigned landing time and runway to the aircraft.
- It optimized the path taken by the aircraft from the runway to the terminal and vice-versa.
- The algorithm used uniform cross-over technique and high mutation rates to reach the best fitness values.

Optimization of FCM Algorithm
- The project aimed to leverage the search capabilities of a genetic algorithm for finding the centre points for clustering of data points.
- The algorithm led to improvement in efficiency and time taken for clustering.

EDUCATION

B.E.(Hons) Electronics and Instrumentation
Birla Institute of Technology and Science, Pilani

08/2014 - 05/2018

SKILLS

Java   C++   Python   Node.js   Angular   C
Linux   Agile Methodology   Dev Ops
Version Control   Neural Networks

ACHIEVEMENTS

• Certificate of Appreciation by CBSE for excellent performance in Class 12th Board Examination.

• Offered Inspire Scholarship by CBSE (offered to top 1 percentile students).

• Received gold medal for proficiency in academics for 7 consecutive years.

• Certificate of Merit by CBSE for obtaining 10 CGPA in Class 10th Board Examination.

VOLUNTEER EXPERIENCE

NIRMAAN ORGANIZATION
Our project adopted a government school in a village and thrived to convert it into an ideal place for learning. Undertook projects like Computer Literacy Program and Infrastructure. Lead a team of 15 volunteers to work for the cause.

EXTRA CURRICULAR ACTIVITIES

• Provided regular teaching lessons to the kids of Bhaas slum near Pilani. The kids were the first generation to receive formal education.

• Got kids admitted to schools under the Right to Education act.

LANGUAGES

English
Full Professional Proficiency

Hindi
Native or Bilingual Proficiency