

DHRUV ISHPUNIANI

M.Sc in Computer Science

Contact

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Skills and Technologies

Languages & Frameworks

- JAVA
- C++
- Spring Batch
- Spring MVC
- Python
- Django
- Ruby on Rails
- JavaScript
- Elasticsearch
- Logstash
- Kibana
- Apache Lucene

Databases

- PostgreSQL
- Oracle
- MongoDB

Machine/Deep Learning

- TensorFlow
- Keras
- OpenCV
- OpenPose
- NumPy
- Pandas

Education

TRINITY COLLEGE DUBLIN
THE UNIVERSITY OF DUBLIN, 2019-2020

M.Sc in Computer Science - Intelligent Systems

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY
DELHI UNIVERSITY, 2012-2016

B.E. in Information Technology

Volunteer Experience

Volunteered in the project "Farm to Folk" as a member of Enactus, NSIT. Our objective was to build strong, cooperative relationships between and amongst producers and consumers. We strove to provide a fair income for local producers while meeting the food needs of local consumers. We also aimed to educate the surrounding community about farm and food issues.

Work Experience

PROJECT YX - SOFTWARE ENGINEER

JANUARY 2018 - JULY 2019

Member of the core engineering team at the US based startup aimed at providing highly personalised online shopping experience. Worked as an engineer responsible for end to end development of a myriad of core modules and components. Primarily used *JavaScript*, *Ruby on Rails* and *Spring Framework*. Following are some features I worked on:-

- Digital Marketing Framework : Worked on a framework to automate ad campaign management for Google as well as Bing.
- Smart Scan : Devised a solution to scan client's emails and parse order/shipping information to be added to their digital closet.
- Auto Order : Architected a scalable solution to place orders automatically at luxury e-commerce portals like "Farfetch".
- Automated Shipment Tracking : Designed a service that tracks and updates shipment information from carriers like DHL, FedEx, UPS and USPS.

BHARTI AIRTEL - SOFTWARE ENGINEER

JULY 2017 - DECEMBER 2017

Worked as part of the Growth Team with the objective to automate all B2B operations. Primarily worked on the development of a system to perform aggregations and monitor various metrics such as API hit count, average time taken which are observed throughout the user journey using the *Elasticsearch Logstash Kibana* stack.

NEXTAG - SOFTWARE ENGINEER

JULY 2016 - JUNE 2017

Nextag being a price comparator and aggregator, received product feeds from multiple partners such as eBay, Amazon, Walmart, Rakuten along with various small merchants. Some of the key areas I worked on were import of these product feeds into the *HBase* catalog and generating syndication feeds from this catalog.

Academic Projects

Ongoing

- Generating ambisonics using audio-visual cues for virtual reality (Dissertation Topic) at Trinity College Dublin using deep learning.

Completed

- Generating skeletal models of football players from live footage using OpenPose and OpenCV.
- "Oversight": Built a map-centric decision-support dashboard for city managers and city service providers to optimise mobility and service delivery in the city of Dublin, Ireland using *Django* framework.
- Built *Java* based search engines using *Apache Lucene* on the Cranfield collection and an aggregated collection of news articles.
- Time-series forecasting of DublinBikes availability for each stand and pollution levels in the city of Dublin using an Autoregressive model.
- Evaluated Reinforcement Learning Agents(Counterfactual Regret Minimization, Deep- Q Learning and Neural Fictitious Self-Play) playing Leduc Hold'em Poker using the *RLCard* framework in *python*.
- "Timble": A blind dating web application focusing on the user's personality instead of pictures, built using *flask*.
- Used *TensorFlow Keras* to build a deep learning model predicting a person's income on the basis of a several features provided as part of the Machine Learning module's coursework.
- Used *D3.js* to develop a novel visualization technique(Circle Wave) to visualize data correlation.