

Pritish Roy

Software Developer

Work with progressive organisation that gives me the opportunity to utilise my skills in achieving common goals of the corporation and a bright personal career. Currently enrolled at the University of Queensland for Master of Data Science. Three and a half years of work experience in a highly scalable messaging platform and digital health web services. Passionate about software|data engineering & areas of AI like deep learning, NLP & computer vision.



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WORK EXPERIENCE

Summer Research Scholar The University of Queensland

11/2020 - Present

Brisbane, Australia

Research Topic: AI for the prediction and prevention of concussion

- Used Mask RCNN framework to track players trained on the Cityscape Dataset and transfer learning. Accomplished detection of human pose estimation in video gameplay from pre-trained coco human pose estimation model. Implemented team tracking using OpenCV. Extracted video frames of tackles/concussions parsing from XML data. Detected collision using intersection over union(IoU).

Contact: Dr Shakes Chandra - shekhar.chandra@uq.edu.au

SOFTWARE DEVELOPER

SMART IDEAS GROUP/ZS SOLUTIONS LTD

08/2016 - 01/2020

Dhaka, Bangladesh

SmartIdeas Group of companies deliver innovative products, services and solutions for Digital Health and Integrated Messaging on a global scale.

Achievements/Tasks

- Delivered user stories for server-side application on a weekly basis or fortnight that is robust, functional, and scalable. Used SCRUM for agile development and participated in team-led solutions, reviewing peer's code for quality and completeness. Identified development issues & brainstormed solutions. Wrote unit tests and code-documentation. Deployed code to test servers and production.
- Lead developer for web application registration module with payment gateway. Accomplished upgrading Python EOL 2.7 to 3.7 and Django Framework 1.55 to 2.2 LTS for the application, **lifemed.care**
- Contributed to a highly scalable messaging platform and web services, built using Tornado asynchronous server, Celery task scheduler, SQLAlchemy the ORM. Contributed to a Custom Messaging Service product, **Parcelforce Worldwide**. Lead Developer for the implementation of two-factor authentication, password reset & necessary RESTFUL-APIs in order to comply with GDPR. Improved report generation performance. **SmartMessage**

Contact: A K Simanto - simanto604@gmail.com

EDUCATION

MSc, Master Of Data Science The University of Queensland

02/2020 - Present

5.875/7

Capstone Project

- Explainable Deep Learning for Coral Classification

Bachelors of Technology, Computer Science and Engineering

National Institute of Technology, Rourkela

07/2012 - 06/2016

7.09/10

Thesis

- Study of an Item Based Collaborative Filtering, Recommender System

SKILLS & FRAMEWORK

Python

R

Docker

Git

SQL

Redis

Design Patterns

APIs

Django

Tornado

Flask

Celery

AWS

Gurobi

Tensorflow

SCIKIT-LEARN

PyTorch

OpenCV

PERSONAL PROJECTS

Personal Blog (07/2020 - Present) 📄

- FLASK web framework with APIs such as CRUD, AUTH operations. Using Mysql as the database and SQLALCHEMY as the ORM, Sendgrid to send email and Celery to schedule email. Hosted on AWS EC2 ubuntu with GUNICORN3 python web server gateway interface (WSGI) HTTP server, Nginx web server used as a reverse proxy, load balancer, mail proxy, and Celery + RabbitMQ with Supervisor running in the background.

CyberBullying Detection in Social Media (09/2020 - 11/2020) 📄

- Cyberbullying is a crime where one person becomes the target of harassment, racism, toxicity and hate etc. Sequential deep learning architecture: embedding, convolutional, dense layer eliminates the need for feature engineering and produces better prediction than traditional machine learning approaches using the concept of word embedding and use of high-level API of TensorFlow open-source library.

Sardonic (03/2017 - 10/2019)

- Tornado post request handler to mock Sybase API and Third-Party payment service used for load testing and functional testing purposes respectively.

Internship: ZS Solutions Ltd (05/2015 - 06/2015)

- SELENIUM AUTOMATION
- Prepared test cases and scripts utilising JUnit Framework. Formulated and executed test cases as per requirements and design documentation.

ACHIEVEMENTS

Daily Star Award (06/2010)

Daily Star Award for 8 A's in O'Level

Microsoft Student Partner (07/2014 - 06/2016)

Acquired tools, training, and lead technological discussions, demonstrated new technology, and hosted various tech events on my campus.

LANGUAGES

English



Hindi



Bengali



INTERESTS

Technology

OpenSource

DeepLearning

Travelling

Football