PRAPHULLA BHAWSAR

Data Engineer / Full Stack Developer

Phone: (929) 409-9237



Education

MASTER OF SCIENCE | New York University Tandon School of Engineering, NY

AUG 2017 - MAY 2019

Major: Computer Science / Data Science

> BACHELOR OF ENGINEERING | University of Mumbai, India

AUG 2011 - JUN 2015

Major: Computer Engineering

Experience

DATA ENGINEER | National Cancer Institute, Rockville, MD

MAR 2019 - Present

- > Part of the Data Science team at the Dept. of Cancer Epidemiology & Genetics working to employ deep learning on the edge for data analysis in cancer research. Currently designing a platform to facilitate federated learning in digital pathology.
- Created reusable participant recruitment and questionnaire modules for the ongoing Connect cancer cohort study.

LEAD DEVELOPER | NYU Student Tech Innovation, NY

SEP 2017 - MAR 2019

- > Led the development team of the Student Tech Innovation team at NYU to create innovative applications for the NYU community.
- > Spearheaded the development of an intelligent chatbot using Elasticsearch and Google's Dialogflow engine, to serve as an interactive, easy-to-use interface for students to get their queries answered from the NYU knowledge base.

FULL STACK DEVELOPER | Reliance Jio Infocomm Ltd., India

JUN 2015 - JUL 2017

- > **JioTV**: Lead backend developer for the JioTV2.0 live TV streaming application, currently used by over 100 million people in India. Provided support for multiple application platforms, including Android, iOS, AppleTV, Tizen, feature phones, smart TVs and STBs.
- > **JioXpressNews:** Worked as part of a 4-member team to completely overhaul the backend for the JioXpressNews mobile app. Developed an RSS feed crawler and web scraper to collate news articles for the application using Mozilla's Readability library.
- Research Projects: Worked on designing several PoCs as part of the core R&D team, including JioTrack, a fleet tracking application in React Native and Node.js; JioWall, a web app to display photos shared on social media in real time, and others.

PROJECT INTERN | Persistent Systems, India

AUG 2014 - APR 2015

RESEARCH INTERN | Reliance Telecom, India

OCT 2013 - DEC 2013

Academic Projects

- Galaxy Morphology Classification Using CNNs: Trained a VGG-19 CNN using the Keras API to classify galaxies by morphology from raw sky survey images. Compared the performance of an uninitialized model to one that was trained on another dataset first, demonstrating the advantages of using Transfer Learning on sparse astronomical datasets.
- Rock-Paper-Scissors with Al: Designed a rock-paper-scissors game against an Al. Performed contour detection and feature extraction on webcam feed, followed by real-time gesture recognition using an SVM classifier.
- > <u>DisTwitter</u>: Developed a simplistic Twitter clone to run on a distributed architecture with Golang and Protobufs. Integrated a rudimentary file-based database using Viewstamped Replication, along with a neat front-end in React.

Technical Skills

Languages & Frameworks: JavaScript, Node.js, Python, Golang, TypeScript, ReactJS, HTML, CSS, PHP

Libraries, Databases et al.: TensorFlow, TF.js, Keras, PyTorch, SQL, MongoDB, Elasticsearch, Redis,

Couchbase, Firestore, BigQuery, Tableau, D3.js, Plotly.js, Nginx