Darshan Patel

Research Assistant

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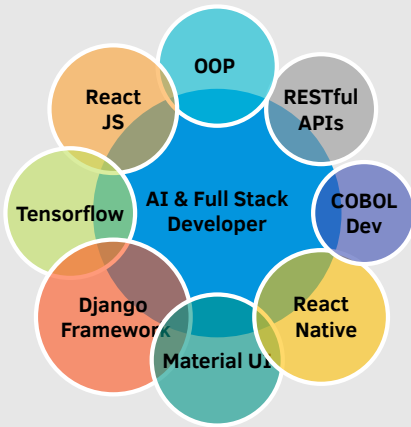
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Skills

Overview

Programming

HTML5 • JS • Python

C • C++ • C# • Java • PHP

Projects

MathModel - Probabilistic Mathematical Model for Load Balancing in Cloud

SentMent - POS tagging and Classification of speech, implemented using Python.

NUConnect - An Android Application for student-faculty interaction on Campus using Campus Wifi.

PolSAR - A polarimetric SAR application in Oceanography, finding novel approaches to use SAR data and apply the same in the field of oceanography.

QuEans - A react js - Django Application which renders questions dynamically based on the historical data.

Experience

April 2019 - Present — **Research Assistant** — AI HUB - Durham College

- Currently involved in building a realtime accurate data predictor using Tensorflow and deploying to Django using Docker on AWS Elastic bean service, to predict and estimate the quote.
- Develop RESTful APIs using .NET Core 3.0 and Django Rest Framework.
- Developed a React Native based cross platform mobile application with Django Rest Framework as backend tool, to get Parents and Teacher realtime information about child in daycare.
- Worked in a team environment. Completed 6 different projects - solved unique business problems. Worked with Technologies like: Django, React JS, Redux, .NET Core, Java Spring, Xamarin, React Native, Django Rest Framework, HighCharts, Material UI, Axiom, Bootstrap, JQuery, Node.js, Mongo DB, MySQL, MSSql, SQLlite, Docker, Azure, AWS - Elastic bean.

Oct 2019 - Present — **Peer Tutor** — Durham College

- Like Researching and Programming, Teaching is also one of my passion. At Durham College, I taught students the subjects which I have excelled like - Object Oriented Programming, Mathematics and Data Communications. Tutoring at Durham College gave my boost to my Canadian English.

Jul 2017 - Aug 2018 — **Web Application Developer** — MobileFirst Applications

- Designing to Delivering Projects, extensively using Javascript, Bootstrap and PHP/JAVA Spring as backend. Supervising the project and giving direction according to the client specifications. Modifying layouts featuring user-friendly design.

Education

2018 - 2020 — **Computer Programmer** — Durham College, Canada

2013 - 2017 — **B.Tech., Computer Engineering** — Nirma University, India

Research

2016 - 2017 — **Research Fellow** — Nirma University

- Went to Texas, USA to present research paper along with my professor - Pooja Shah (My final year project guide). Under her guidance, my final year project research work got selected in conference held at Fort Worth, Texas, USA. During seven days conference at Texas, I had opportunity to present my research paper in front of eminent researchers from all over the world, and after few months it got published on IEEE Xplore Digital Library. My research work was on "Oil spill detection using SAR Polarimetry".
- **Tools**: R, Python, scikit-learn, PolSAR pro, pandas, GDAL

Publications

Shah, Pooja, Tanish Zaveri, Raj Kumar, Shubham Sharma, and Darshan Patel. "Research oriented foss solution for automatic oil spill detection using risat-1 sar data." In 2017 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), pp. 3121-3124. IEEE, 2017.