

DATA SCIENTIST · DATA ENGINEER · SOFTWARE ENGINEER

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Bloomington, IN

Aug. 2017 - May. 2017

- Tezpur, Assam, India

Aug. 2012 - Jul. 2016

- Indiana University, Bloomington

Jan. 2019 - May 2019

- Indiana University, Bloomington

Aug. 2018 - Dec. 2018

- Indiana University, Bloomington

Jul. 2018 - Dec. 2018

- Indiana University, Bloomington

Jan. 2018 - May. 2018

- Indiana University, Bloomington

Oct. 2017 - Dec. 2017

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American Sign Language Recognition from Video

Tezpur University, Tezpur, Assam,
India

FINAL YEAR PROJECT

May. 2016 - Aug. 2016

- Built a desktop based application to recognize American Sign Language gestures from video and convert them to text sentences using Python and WxWidgets
- Used OpenCV extract features from videos of signers in the [American Sign Language Lexicon Video Dataset\(ASLLVD\)](#) maintained by Boston University, and trained a deep neural network classifier for recognizing different gestures
- Achieved 85% accuracy in individual word detection and 60% accuracy in translating sentences

Inventory Management Application for Local Business

Tezpur University, Tezpur, Assam,
India

DATABASE MANAGEMENT SYSTEMS

Aug. 2015 - May. 2016

- Built an Inventory management application for a local business using Django and PostgreSQL that allowed inventory tracking and employee schedule generation
- Deployed the application on an AWS instance and trained the sales employees on using the application, leading to increased throughput, and reduction in monthly inventory processing times

Experience

Aqfer Inc.

Orlando, FL

SOLUTIONS ENGINEER

Nov. 2020 - Present

- Integrated advertising data and metrics from new data sources consuming various types of APIs, into Aqfer's standard query optimized schemata.
- Supported development of YAML-based command line APIs that allow clients to easily specify reports and the mappings to the standard schemata, and reduce time to value.
- Built client specific code to extract relevant entity relationships from event level telemetry data, and perform identity resolution on top of the extracted entity-graph.

Franchise Data Solutions, LLC.

Orlando, FL

SOFTWARE ENGINEER

Apr. 2020 - Oct. 2020

- Added new functionality to the company's organization, resource and operations management web application platform, using Flask, PostgreSQL, SQLAlchemy, HTML, CSS and Javascript
- Automated data pulls for the platform and integrated custom reporting functionality on the platform based on the data pulled daily from various resources.

The Walt Disney Company

Orlando, FL

DECISION SCIENCE PROFESSIONAL INTERN

Aug. 2019 - Apr. 2020

- Implemented a state space post processing approach to dynamically adjust product level demand forecasts to match actual behavior based on newly observed data points using Python and SAS that improved 70% of Disney Cruise Line booking forecasts with a mean improvement of 35% in absolute error
- Implemented data preparation, feature engineering, and output monitoring and built models for daily park attendance forecasting using Pyspark, Teradata, Tableau and scikit-learn
- Added pyspark and spark-ml support to an internal framework that helps standardize and maintain production ML pipelines across projects using different machine learning frameworks

Indiana University: Luddy School of Informatics Computing and Engineering

Boomington, IN

ASSOCIATE INSTRUCTOR

Aug. 2018 - May. 2019

- Evaluated student submissions and projects in various modules that cover, Hadoop, Spark, Scala, and Deep learning
- Created course content and setup tutorials for Machine Learning with Spark module and updated content for Hadoop, Scala and Deep Learning Modules

Indiana University: CNS

Bloomington, IN

PYTHON DEVELOPER

Oct. 2017 - Dec. 2017

- Contributed to the development of cloudmesh.pi, a library for prototyping IoT applications on Raspberry pi
- Interfaced different analog and digital sensors and built modules for each of the sensors, that allow plug and use functionality
- Programmed an array of dendrites to move in various patterns controlled by different Raspberry Pis communicating via MQTT github.com/seashiva94/cloudmesh.pi

Navyug Infosolutions

Noida, UP, India

SOFTWARE ENGINEER INTERN

Oct. 2016 - Jul. 2017

- Developed and deployed an interactive and responsive internal project management (Gofer) web application used by 200 people using Ruby on Rails, Ember.js and JQuery-UI
- Integrated the application with Google APIs to provide Project Managers access to auto generated time sheets used for downstream cost analyses and resource allocation
- Added new functionality for a mobile application for an education client to allow instructors to gauge student performance after each class through short quizzes
- Developed Android and iOS application for the web application using Apache Cordova

NTPC NETRA Advanced Computing Lab

Greater Noida, UP, India

SOFTWARE ENGINEER INTERN

May. 2015 - Jul. 2015

- Studied the various components of the high performance computing system and the specific configuration used at the site to enable computationally intensive tasks. Used Ganglia to monitor the system and detect anomalies using data logs
- Implemented various machine learning algorithms like anomaly detection, regression and classification using previously collected power plant data in Python

Awards

2017 **Data Science Fellowship**, Indiana University Bloomington

MS, Data Science