Prashanth Rao

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Education

- **University of Texas at Dallas** — Richardson TX
  Masters, Computer Science; GPA: 3.81/4.0 — *Jan 2018 – Dec. 2019*
- **VIT University** — Vellore, India
  Bachelor of Technology, Electronics and Communication Engineering; GPA: 3.5/4.0 — *Jul 2013 – Jul 2017*

Technical Skills

- **Programming Languages:** : C++, SQL, R, Java, Python, Scala
- **Web Technologies**: HTML5, CSS3, JavaScript, PHP, jQuery, Ajax, Express, AngularJS, Node, Rest, Soap
- **Databases**: MySQL, MAMP, MongoDB, NoSQL
- **BigData Technologies**: Hadoop, Spark, Kafka, Pig, Cassandra, Hive
- **Tools**: Git, Eclipse, OpenCV, Tensorflow, Slack, Latex

Coursework

Database Design, Advanced Design and Analysis of Algorithms, Web Programming Languages, Machine Learning, Operating Systems, Discrete Structures, Data Structures and Algorithms, Statistical Methods for Data Science, Big Data Management and Analytics, Computer Vision

Projects

- **Contact Manager**: A graphical user interface application that manages a list of contacts by interacting with an SQL database. Front-end design was created using Java. Features include:
  - searching for a contact using any field, adding a new contact
  - updating or deleting an existing contact, displaying all contacts
- **Easy Movers**: A full stack website for a moving company. Built front end using HTML, CSS, Javascript and BootStrap. Back-end was implemented using MySQL and PHP. Features include:
  - user signup, form validation and user login
  - user cart (remove from cart, clear cart), checkout and order history
  - search filter (text and category) for displaying products
  - admin privileges - updating product information, removing a product, or adding a new product
- **DavisBase**: A simple database engine based on a file-per-table variation of the SQLite file format. Features include:
  - DDL operations: create database, create table
  - DML operations: update table, insert into, delete from table, drop database, drop table
  - DVL operations: show tables, show databases, describe table, use database
- **Client Server Datastore**: A generic client-server application that implements the CRUD operations.
  - Server was designed to store data in a persistent fashion for later retrieval.
  - Establishment of message protocol between the server and client.
- **Task Executor Library**: A service that accepts instances of tasks and executes each task in one of the multiple threads maintained by a thread pool. Implemented using multithreaded synchronization and blocking FIFO queue.

Mini Projects

- Finding mutual friends of any two users using Hadoop Mapreduce
- A video library store built using the Mean Stack
- Classifying the wine dataset from the UCI Machine Learning Repository
- Extracting information from the Yelp dataset using Apache Spark and SparkSQL
- A complete database design for a fitness center

Certifications

- Neural Networks and Deep Learning by *deeplearning.ai* on Coursera
- Neural Networks: HyperParameter Tuning, Optimization and Regularization by *deeplearning.ai* on Coursera
- Python Data Structures by *University of Michigan* on Coursera