

# Prashanth Rao

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- [Github](#) • [LinkedIn](#) • [Leetcode](#) • [Coursera](#)

## EDUCATION

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- **University of Texas at Dallas** Richardson TX  
*Masters, Computer Science; GPA: 3.73/4.0* *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

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- **Programming Languages:** C++, Java, Python
- **Databases:** SQL, Cassandra, BigTable, MongoDB
- **Web Technologies:** HTML, CSS, Javascript, jQuery, PHP, Ajax, Express, AngularJS, NodeJS, Rest, Soap
- **Big Data Technologies:** Hadoop, Spark, Kafka, Pig, Cassandra, Data Bricks
- **Tools:** Git, Eclipse, OpenCV, PyTorch, Tensorflow, Slack, Latex

## COURSEWORK

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Database Design, Advanced Algorithms, Web Programming Languages, Machine Learning, Operating Systems, Discrete Structures, Data Structures and Algorithms, Statistical Data Science, Big Data Management and Analytics, Computer Vision, Distributed Computing, Object Oriented Analysis and Design, Network Algorithms

## PROJECTS

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- **Political Event Coding:** Gathering news articles from a list of websites and encoding them in a 'who-what-when-where' format in MongoDB using Spark and NLP. Included:
  - Scraping articles from the web using web scrapers like Scrapy and Newsplease
  - Article metadata extraction using CoreNLP and storing the results in MongoDB
  - Encoding the article in 'who-what-when-where' format using Petrarch
- **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, 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
- **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.

## LINKS

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- Check out my projects and work samples on [Github](#)
- View my progress on competitive coding websites such as [Hackerrank](#) and [Leetcode](#)
- View my online certifications on [Coursera](#)