BharathRam Hariharan

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                          http://bharathramh92.me   https://github.com/bharathramh92

Education

Masters	University of North Carolina Charlotte	May 2016
	Computer Science, **GPA**: 3.7/4.0	
Bachelors	College of Engineering Trivandrum	May 2013
	Electrical & Electronics Engineering, **GPA**: 7.25/10.0	

Programming Skills

Languages	: **Python**, **Java**, SQL	*OS*	: Unix
Web Technologies	: HTML, CSS, **JavaScript**, JQuery, Bootstrap	*Version Control*	: GIT
Frameworks	: **Django**, **Android**, **Apache Spark,** React JS, Redux		

Experience

Pindrop, Software Engineer   July 2016 – Present*
- Automated a major chunk of manual upgrade process using Fabric.
- Improved the reliability of TDM product by adding monitoring feature as a separate process.

UNC Charlotte, Graduate Teaching Assistant for Data Structures and Algorithm   Jan 2016 – May 2016
- Designed programming assignments and test cases.
- Evaluated the performance of students and provided constructive feedback.
- Held office hours and clarified concepts to students.

Ericsson, Engineer   Dec 2013- Nov 2014
- Maintained UNIX servers and assured 24 x 7 up time.
- Ensured fault tolerant system by performing Acceptance Testing, and Health checkups.
- Secured data by automating backup creation tasks.

Projects

Search Engine   http://bharathramh92.me/DocSearch/   Nov 2015 – Dec 2015

Implemented a search tool for ecommerce dataset (Meta data of Books) in **Apache Spark** and **Python**. Dataset was retrieved by crawling **Google Books API**. Inverted indexing was performed for this dataset, were each term is mapped with document id and categories (Author, Title, Publisher etc.). Documents for a search query were then ranked based on the weighted sum of documents, which were filtered through the indexed data.

Shopping Portal   https://github.com/bharathramh92/shop   *Feb 2016 – May 2015*

Developed an ecommerce web application for Books using **Django Framework** (**Python**), and **Bootstrap Framework**. Features include Dynamic Categorization, User Accounts Management, and CRUD for Item list and Inventory.

Robot Navigation http://bharathramh92.me/MotionPlanning/   Mar 2016 – Apr 2016

Implemented RRT* motion planning algorithm using **Python,** for a Car like robot to traverse in a known environment. Car and Environment details are taken as a JSON file and the control inputs (straight, left, right, reverse, etc.) for the Car is generated. Visualization was performed using matplotlib.

Xplore   https://github.com/bharathramh92/xplore   *April 2015 – May 2015*

Developed an **android** application in **Java,** which lists nearby hangout places, Weather information, and Friends. For listing friends nearby, friend's data was retrieved using Facebook Graph API and at the time of deploying, **Facebook didn't have this feature**. Cloud Data storage was supported by Parse.com (which is obsolete now).