

# PREM KUMAR MURUGESAN

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## SUMMARY

Passionate and experienced programmer looking for opportunities in the field of software development and data analytics.

## EDUCATION

University of North Carolina at Charlotte, NC, USA

Anticipated Graduation: May 2016

**Master of Science in Computer Science (Data Science)**

**GPA – 4.0/4.0**

Anna University, Chennai, India

2009 - 2013

**Bachelor of Engineering in Electronics and Communication Engineering**

**GPA – 7.15/10.00**

## SKILLS

**Programming Languages:** Core Java, Python, R, MATLAB, C++, C#, PL-SQL, Shell Script

**Big Data Skills:** Hadoop, Data Mining, Cloud Computing, Machine Learning

**Web Technologies:** Java EE, ASP.NET, HTML, CSS, JavaScript, JSON

**Databases:** MS SQL Server, MySQL, SQLite

**Packages:** HP Load Runner, Eclipse, Android Studio

**Other Skills:** Algorithm Design, Git

## PROFESSIONAL EXPERIENCE

**Graduate Teaching Assistant**

**May 2015 – Present**

UNC Charlotte, NC, USA

- Worked as a Graduate Level Teaching Assistant for the courses 'Algorithms and Data Structures' and 'Computer Communications and Networks'.
- Developed an automation tool called 'Email Harvester' to extract the email ids of the class participants to simplify the feedback process after grading.

**Programmer Analyst Trainee**

**September 2013 – November 2014**

Cognizant Technology Solutions, Chennai, India

- Designed and developed a web application for Library Management System in MVC framework using ASP.NET and MS SQL Server.
- Worked in performance engineering and testing for web and SaaS applications.
- Simulated peak loads like Cyber Monday, Black Friday and measured performance metrics and provided predictions of risk.
- Clients worked with: Staples Inc., AstraZeneca.

## ACADEMIC PROJECTS

**FaceStats – Facebook User data analysis**

**April 2015**

Using Facebook's Open Graph API and Apple's new programming language Swift, developed an iOS application that gives a statistical analysis of a Facebook user's data.

**Email Harvester – HTML Table to JSON library**

**February 2015**

Scripted using Jmeter to extract list of encoded email-ids from Moodle2 (e-Learning platform) and decoded using Java to create distribution list. Upgraded into a java library that converts HTML table tag into JSON data.

**Student Recruitment Management**

**August 2015**

Leaded and organized the project with a team of 14 members. Designed complete schema of the database and normalized it to BCNF form. Developed a web application using Java EE, MySQL and hosted in AWS EC2.

**Product Reviews Summarizer**

**November 2015**

Extracts summary of reviews written by customers for products on Amazon.com using text summarization algorithms. This helps understanding the strength and weakness of a product without reading lot of reviews and thus saves time.

**Gesture Recognition from Accelerometer Data**

**December 2015**

Extracted various statistical, time and frequency domain features from the tri-axial accelerometer data to classify the user performed social gesture and achieved an accuracy of 96.67% using various machine learning techniques.

## OPEN-SOURCE PROJECT

**GooDrive – Google Drive Client for Linux**

**August 2015**

GooDrive is targeted to be the most functional among all unofficial Google Drive Client available today for Linux.

Currently supports more features like 'Active syncing, Files with same name' that are not supported by other google drive clients like Grive, Grive2 and GoogleDriveJavaClient. Based on Google's new REST API.

**GitHub:** <https://github.com/iamprem>

**LinkedIn:** <https://www.linkedin.com/in/iamprem>