

## Priya Balachandran Mary

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## EDUCATION

### University at Albany, State University of New York

August 2014 - May 2016

GPA: 3.85 / 4.00

*Masters of Science in Computer Science*

**Courses:** Network Mining, Network Science, Advanced Programming concepts, Algorithms and Data structures, Software Engineering, Data mining, Database Systems

### University of Mumbai, Mumbai, India

July 2007 - June 2011

GPA: 3.69 / 4.00

*Bachelor of Engineering in Information Technology*

**Courses:** Operating Systems, Data Structures & Algorithms, Database Management Systems, Data Warehousing, Mining & Business Intelligence, Computer Graphics

## TECHNICAL SKILLS

<b>Languages</b>	Python, R, JavaScript, SQL, Java
<b>IDE(s)</b>	Eclipse, Android Studio, RStudio, IntelliJ, Atom, Sublime Text
<b>Databases</b>	SQL Server 2005, 2008, 2008 R2; Oracle 9i, 10g, 11g; PostgreSQL, MongoDB
<b>Web Technologies</b>	HTML5, CSS3, Bootstrap, Angular JS
<b>Operating Systems</b>	Windows (98, 2000, XP, Vista, Windows 7), Windows Server 2003, 2008, 2008 R2
<b>Packages</b>	Python - NumPy, pandas, Scikit-learn, matplotlib, plotly, R - ggplot2, dplyr, plotly, Shiny, shinythemes, igraph, Flask, Django

## WORK EXPERIENCE

### SUNY Research Foundation/Rockefeller College of Public Affairs & Policy

August 2014 - present

*Languages: R, Technologies: AWS EC2*

- Developed an open source Pension Simulation Calculator and using R as the primary programming language and replaced the existing model.
- Broadened scope of the calculator by providing capabilities to build a synthetic population which follows uniform or any custom distributions.
- Enhanced user experience & access by developing a website using the Shiny package, incorporating

Bootstrap themes & hosting the application on an AWS EC2 instance which eventually led the model receiving a sizable funding.

### Larsen & Toubro InfoTech, India June 2011- July 2014

*Technologies: PeopleSoft Applications, PeopleTools, Databases: Oracle, SQL Server*

- Released 3 different production environments after tools patching and a tools upgrade around the same time frame & reduced wait time on the release considerably.
- Configured various different development, Test, UAT & Production environments for client demos and took opportunities to train interns in the team and learn more PeopleSoft administration skills.

## PROJECTS

### Cuisine Classification

January 2017

*Languages: Python, Javascript; Technologies: Flask, Angular; Database: MongoDB*

A project, in the works, to classify a recipe to a cuisine based on its ingredients using Multinomial Naives Bayes prediction model.

### Study of Diffusion in Networks

August 2015

*Languages: R*

Developed a tool to study the spread of a contagion in a network by generating Erdos-Renyi graphs and power law distribution graphs and simulating the spread by infecting random seeds and nodes with higher degrees.

### Furniture World

January 2015

*Languages: Java; Database: MySQL Server*

Design a web based e-commerce application which allows users to shop from a variety of home furnishings provided by different sellers.

### Symptom Tracker

January 2015

*Languages: Python, PHP; Technologies: HighCharts, Database: MySQL Server*

Built an online tool to detect disease outbreaks in the United States from tweets in the twitter space across 1217 major cities & returned statistical data and visualizations on the number of using Python and HighCharts.

### Learning to discover Social Circles

August 2014

*Languages: Matlab, Python*

Generated an automated solution for detecting social circles in social networking sites like Facebook, google plus etc. using k-way partitioning & similarities between each pairs of friends. Achieved faster rate of execution and a higher F1 score than baseline.

### Analyze That Network Analyzer

August 2014

*Languages: Python, Java; Technologies: Wireshark*

Developed a tool for determining Wi-Fi availability and wireless network congestion by collecting data from WAPs present in the University Campus using Wireshark logs.