# Priya Balachandran Mary

priyabalachandranmary@gmail.com | 518-650-4675 |
http://www.bmpriya.xyz | https://www.linkedin.com/in/
priya-balachandran-mary-7ab23b97 | https://github.com/
bmpriya389

## 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

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

## 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, which attracted funding opportunities for the project.
- 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*

- Reduced tickets from users by developing scripts & a monitoring system to send alerts whenever a database backup or batch process failed.
- 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.

## ACADEMIC PROJECTS

**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 and processed the Wireshark logs using Python to suggest the best locations for Wi-Fi connectivity.

**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.

**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.

**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.

**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.