

# PRIYANKA BHADRAVATHI HALESH

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23-3, Saint Germain Street, Boston, MA

Available: May-Aug 2017

## EDUCATION

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**NORTHEASTERN UNIVERSITY**, Boston, MA

Sep 2015-present

College of Computer and Information Science

**GPA: 3.25**

*Candidate for a Master of Science in Computer Science*

Expected graduation: Dec 2017

**Related Courses:** Programming Design Paradigm, Network Security, Algorithms, Web Development, Data Mining

### Projects:

#### Secure Instant Messaging System (SIMS)

- Designed SIMS with login, logout, server-client/peer-to-peer communication mechanisms with support to security features: PFS, End-Point Hiding, replay, reflection and passive Man-in-the-middle attacks using RSA public-private key pairs using Python.

#### Form Maker

- Developed a web application to create and maintain forms with various kinds of fields using MEAN Stack and RESTful APIs.

#### NetNews

- Developed a highly interactive news portal web application using Guardian News API, MEAN stack and RESTful services.

#### RecycleThat: Recycle for Change

June 2016

- Developed a web application at Boston AngelHack 2016 which won the contest for the 'Code for Social Impact' award. The application connects people having recyclables to others who want to redeem them at recycling centers for extra cash.

#### Data Mining

- Implemented L2 Regularized Linear Regression algorithm and Cross Validation in Java.

**SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING**, Mysore, KA, INDIA

Aug 2007-Jun 2011

*Bachelor of Engineering in Computer Science*

**Related Courses:** Data Structures, Computer Networks, Operating Systems, Software Engineering.

## WORK EXPERIENCE

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**Charles River Development, Burlington, MA**

Jun 2016- present

SOFTWARE DEVELOPER CO-OP: Member of the Fixed Income Core unit of the Charles River Investment Management Solution (CRIMS)

- Improved technical aspects of CRIMS working on the C# platform infrastructure for all Client-side and Java framework for all the Server-side software.
- Enhanced the presentation and Quality of data of the existing User Interface of the product by providing new tools for navigation to the existing Order Entry/Blotter layouts.
- Increased trader efficiency with advanced error checking and feedback on the client interface of the Order, Security, Placement and Quote grids.
- Developed core formula/algorithm to compute the AllInPrice of Equities using the Collateral Security details on Global Repo and Global Reverse Repo orders.
- Improved the consistency of the product across different security types like Bank Loans, Repos, Corporate Bonds, Common Stocks and Time Deposits by implementing validation of different types of dates.
- Coordinated with release engineering to drive improvements in build issues of the product.

**Hewlett Packard, Bengaluru, India**

Jan 2012- Jul 2015

SOFTWARE DEVELOPER

**OpenCall Media Platform (OCMP)** - A feature-rich, carrier-guide media server used in a variety of networks like 2G, 3G and 4G.

**Common-Components:** A global module used internally for CMS products, with Supportability, Licensing and EventFramework as its components.

- Supervised the development, installation and packaging of all three components as Project Administrator.
- Implemented SNMPv3 on Eventframework and Supportability components.

**Continued Product Engineering (CPE):** A team handling the upgradation of OCMP.

- Identified and analyzed the performance bottlenecks and rectified them to improve efficiency and effectiveness of OCMP CPE.

**Session Initiation Protocol Application Server (SIP AS):** An interface supported by OCMP via JAINSIP based SIP implementation for the deployment of various services.

- Worked extensively on Call Control API features deployed on SIP AS including early media, sending and receiving calls, detecting and generating DTMF tones, playing and recording, conference calls using VoIP phones and SIPP tool.
- Developed CCXML and VXML based ASR/TTS services.

**VoiceBase feature implementation:** A product feature provided by OCMP which offers a speech-based variable announcement engine.

- Verified the behavior of various VoiceBase languages and developed the VoiceBase validation script on Linux Platform.

## **TEACHING WORK EXPERIENCE**

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### **Graduate Teaching Assistant**

Jan 2016–May 2016

Northeastern University, Boston, MA

- Assisting Prof. Dr. Ghita Amor with course Discrete Structures – CS1800; reviewing assignments of students, maintaining online discussion board (Piazza), holding office hours and conducting recitation sessions.

## **TECHNICAL KNOWLEDGE**

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**Languages:** Java, Python, Racket, C, C++, MATLAB, C#

**Databases:** MS-Access, Oracle, SQL Server

**Web Technologies:** HTML, JavaScript, CSS, MEAN Stack