

# Sriharsha Srinivasa Karthik Kaipa

(617) 595-2073  
kaipa.s@husky.neu.edu

75 Saint Alphonsus St, Apt. 816  
Boston, MA 02120

## EDUCATION

---

### Northeastern University, Boston, MA

College of Computer and Information Science

*Master of Science in Computer Science*, GPA: 3.61/4.0

Related Courses: Game Artificial Intelligence, Web Development,  
Parallel Data Processing in MapReduce\*, Human Computer Interaction

Sept 2014-Present

Expected Graduation: Dec 2016

### Indian Institute of Technology Bombay, Mumbai, India

*Bachelor of Technology in Computer Science and Engineering*, GPA: 7.3/10.0

Related Courses: Data structures and Algorithms, Design and Analysis of Algorithms,  
Computer Graphics, Artificial Intelligence

May 2014

## TECHNICAL KNOWLEDGE

---

<b>Languages:</b>	Java, JavaScript, C/C++, Python, Qt, MIPS, Racket, Prolog, Haskell, Processing, C#
<b>Technology Stacks:</b>	MEAN, Spring, Spring Integration
<b>Performance Tools:</b>	JMeter, BlazeMeter, Veracode
<b>JavaScript Technologies:</b>	Velocity.js, Three.js
<b>Software:</b>	MySQL, SoapUI, RabbitMQ, Hadoop*, LaTeX

## WORK EXPERIENCE

---

### PayPal, Boston, MA

Software Engineer Co-op

Jan-Aug 2016

- Designed and implemented performance benchmark test cases for core components in production
- Devised, developed and documented data collection process for Benchmark and Stability of release code
- Developed tool for data manipulation and comparison of csv files through single command line
- Studied, debugged and suggested rectification for slow functionality in production

### Northeastern University, Boston, MA

Teaching Assistant

Sept-Dec 15, 16

- Lead master level TA, grader, lab assistant and tutor for undergraduate course Logic and Computation

Jan-May 2015

### Deloitte US India, Mumbai, India

Systems Integration Intern

May-July 2013

- Tested and rectified time consuming data warehouse queries for multinational client
- Validated security conditions of various subject areas of Business Intelligence model

## ACADEMIC PROJECTS

---

### Union Capital Boston Prototype App

Northeastern University, Boston, MA

Sept-Dec 2015

- Developed prototype mobile friendly web application for non-profit organization UCB
- Utilized Angular Material for implementing clear and customizable user interface conforming to material design
- Conducted user profiling, information gathering and brainstorming for prioritizing user centric design

### WHAM

Northeastern University, Boston, MA

Sept-Dec 2015

- Developed mobile friendly web application displaying events of interests to user based on users' and custom location
- Created clear and simple interface using Bootstrap components and custom CSS
- Implemented JavaScript hooks for easy integration with server and underlying MongoDB

### Maze Champion

Northeastern University, Boston, MA

Sept-Dec 2014

- Developed maze solver game with random maze generation using growing tree algorithm
- Ensured maze solvability by utilizing random cell selection technique in growing tree algorithm
- Developed multiplayer system with enemies' motion determined by A\* algorithm and enemy behaviors using FSM
- Implemented dynamic deployment for lock and key for players using breadth first search algorithm

### WiFi Based Bot Localization

Indian Institute of Technology Bombay, Mumbai, India

Jan-May 2014

- Implemented WiFi based localization of FireBird V bot through signal strength triangulation and simple machine learning
- Implemented user input based bot mobilization with constant feedback from proximity sensors to detect and warn collisions