

# GAUTAM BAGHEL

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1102 Boylston St. 1-T,  
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## EDUCATION

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**Northeastern University**, Boston MA GPA: 3.67/4.0 Sept. 2016 -Present  
College of Computer and Information Science Expected graduation – Dec 2018

*Candidate for Master of Science in Computer Science*

Related Courses: Programming Design Paradigms, Game Analytics, Mobile Application Development

**National Institute of Engineering**, Mysore India GPA: 8.71/10 July 2015

Bachelor of Engineering in Computer Science

Related Courses: Big – Data Analytics, Database Management Systems, Data Structures

## TECHNICAL KNOWLEDGE

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**Languages:** Java, C/C++, C#, HTML, JavaScript, CSS, XML

**Systems:** Windows 2000/XP/Vista/7/8, Linux

**Software:** Visual Studio, Eclipse, NetBeans, R Studio

**Database:** MySQL, SQLite, Oracle, Firebase

## ACADEMIC PROJECTS

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### NORTHEASTERN UNIVERSITY

**Mobile Application Development** Jan. 2017 -Present

- Developed an online synchronous two player android word game which is a new twist on boggle.
- Designed an android application to label collected unlabeled accelerometer data currently in beta testing.

**Foldit, Protein folding game** Nov. 2017 -Present

- Working on standalone functionality and implementing drag and drop feature to improve gameplay.
- Design and implemented rank based system to organize players.

**Game Analytics** Sept. 2017 -Present

- Developed models to find predictors in win/loss outcome using PCA, Clustering and SVM in online games.
- Designed and implemented models for Multiplayer online games to optimize player roles and team composition.

### NATIONAL INSTITUTE OF ENGINEERING

**Transport Layer protocol for collaboration of intelligent devices** Jan. -Dec. 2015

- Designed and developed award winning lightweight library for TCP/IP transport layer in C, C++ and Java.
- Successfully tested on multiple operating systems for backwards compatibility.
- Co-authored paper on the protocol design for this implementation.

**Database driven finance management application** Oct. 2014 -Jan. 2015

- Published app in Google Play Store that helps distribute funds among peers.
- Developed on eclipse IDE with Java, XML and SQLite.

**Alumni Record System** Sept. 2013 -Sept. 2014

- Developed a website to maintain a record of the people involved in the progress of Chhattisgarh state, India
- Maintained on Joomla to incorporate additional features that maybe included in the future.

## WORK EXPERIENCE

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**Tata Consultancy Services**, India Jan. -Jun. 2016

Associate Software Engineer Trainee

- Developed applications based on Hibernate and Struts framework for an e-commerce web application
- Wrote code for application using Java and JavaScript in collaboration with a small team.
- Tested code for usability and debugged the application for errors.