

# Asim Khan

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## EDUCATION

### Northeastern University, Boston, MA

College of Computer and Information Sciences

Sept. 2016 – Present

*Candidate for a Master of Science in Computer Science*

Expected graduation: Dec. 2018

**Related Courses:** Algorithms, Information Retrieval, Web Development, Programming Design Paradigms

### Dr. APJ Abdul Kalam Technical University, Lucknow, India

July 2008 – June 2012

*Bachelor of Technology in Computer Science and Engineering*

**Related Courses:** Data Structures, Algorithms, Object Oriented Programming, Web Technology, Operating Systems

## TECHNICAL KNOWLEDGE

**Languages:** Java, Python, JavaScript, HTML 5, SQL, CSS

**Web Technologies:** Servlets, JSP, JQuery, Bootstrap, AngularJS, MEAN Stack

**Frameworks:** Spring 3.x (Core, JDBC, AOP, MVC), JAX-WS & RESTFUL Webservices, EJB 3.x, Mockito, Hibernate

**Tools:** Eclipse, IntelliJ, Webstorm, Maven, SVN, Git, HPQC-ALM, Putty, Rally, SOAP UI, Heroku, Pycharm

**Servers:** Apache Tomcat, WebSphere, Weblogic, NodeJS

**Databases:** Oracle 10g, MongoDB

**Certifications:** Oracle Certified Professional, Java EE 5 Web Component Developer (2014)

Oracle Certified Professional Java SE 6 Programmer (2013)

## WORK EXPERIENCE

### Nok Nok Labs, Palo Alto, California

May. 2017 – Present

Software Engineering COOP (Application Developer)

- Designed a Cross-Site Request Forgery Module for the application using OWASP CSRF Guard framework.
- Designed and developed a single-sign-on module using JAAS and Reflection API which could be plugged into any existing application and function as its login page.
- Won 1<sup>st</sup> prize in NNL Hackathon where we built Account Recovery module using face and voice recognition.

### Citicorp Services India Pvt. Ltd., Pune, India

Feb. 2015 – Aug. 2016

Assistant Manager (Application Developer)

- Chiefly involved in the migration of legacy code to the new Spring and Maven based architecture which in turn resulted in the reduction of development efforts by 25% and deployment time by 30%.
- Designed and built more than 50 Web Services which were exposed to multiple applications within Citi.

### Accenture Services India Pvt. Ltd., Pune, India

June. 2012 – Feb. 2015

Analyst Programmer

- Designed multiple re-usable UI components (widgets) which were then exhaustively used throughout the project.
- Built a screenshot utility tool "Roboshot" using Swings API which helped in reducing testing efforts by 20%.
- Created Soap test bed using SOAP UI which reduced the time of testing critical web services by 15%.

## ACADEMIC PROJECTS

### Room Guard

Personal Project

Nov. 2017 – Present

- Designed and developed a Swing application which uses computer's webcam for monitoring activities in a room and sends a notification to the user on the phone/email if there is an intrusion.

### MyMusic Web Application

Northeastern University Project, Boston, MA

Feb. 2017 – Apr. 2017

- Implemented a single page Music application using MEAN Stack with integrated music fingerprinting API to search for songs by simply recording them on the go, with an integrated MP3 player to listen to the searched songs.
- Integrated multiple Web APIs like ACRCLOUD, Gmail, Spotify, MusixMatch, Eventbrite, MTV News to add multiple features like lyrics search, automated email notifications and social networking.

### Blogging Application

Northeastern University Project, Boston, MA

Jan. 2017 – Mar. 2017

- Implemented a single page web application using MEAN Stack where the user can design his own website by creating pages and adding to them several types of widgets, HTML snippets, videos and images.

### Search Engine System

Northeastern University Project, Boston, MA

Nov. 2016 – Dec. 2016

- Built a web crawler using JSoup API which could perform both BFS and DFS on a given seed URL.
- Implemented multiple retrieval models such as BM25, Cosine Similarity, and tf-idf.
- Improved accuracy and effectiveness of models by Query Expansion technique using Pseudo Relevance Feedback.