AVIREK GHATIA

104-32, 94th Avenue • Ozone Park NY 11416 • (551) 998-5147 • ag4682@nyu.edu

EDUCATION

NYU Polytechnic School of Engineering, Brooklyn, NY *Expected May 2016*
Masters of Science (M.S) – Computer Science (GPA: 3.5/4.0)

Shri G.S. Institute of Technology and Science, India *May 2014*
Bachelors of Engineering (B.E) – Computer Science

Relevant Coursework: Design and Analysis of Algorithms, Android Programming, Artificial Intelligence, Database design and Management, Computer Networks, Operating Systems.

WORK EXPERIENCE

NYU Langone Medical Center, New York *Jul 2015 - Present*
Intern: Python, Django, Neural Networks, Deep Learning.
- Leveraging Stanford Natural Language Processing (NLP) and Name Entity Recognition (NER) research using to extract data from English text PDFs.
- Created a launch ready website for the visualization of the data collected.
- Automating the procedure of building index thus reducing the time and labor.
- Pointed out erroneous data gathered and plotted manually.
- Reduced the JS load time for the existing website.

Computer Sciences Corporation (CSC), India *Jul 2013 - May 2014*
Intern: Java, MySQL, Python, JavaScript, HTML, CSS.
- Worked on a Music Search Engine for Hindi language using Soundex algorithm.
- Optimized and reduced the latency by two folds for search in the database by adding double inverted index to position of words in songs.
- Derived rules based on research on Soundex algorithm for Hindi language.
- Reduced the JS load time for the website.

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, JavaScript, ReactJS, MySQL, Shell Script.
- **Web Technologies**: Web Scraping, PHP, JSON, HTML, XML.
- **Cloud Technologies**: Parse, Google Cloud Messaging.
- **Databases**: MySQL, SQLite, Oracle 10g, DB 2.
- **Tools**: Git, Eclipse, NetBeans, Android Studio.
- **API's**: Facebook, FourSquare, Google Calendar, Gmail API.

PROJECTS

Break-No-Chain: Android (Java, SQLite, JSON) *Jun – Aug 2015*
- Leveraged the MVC design pattern for the app.
- Personal project that I worked on for my interest.
- Used Facebook and Google APIs to allow sign up and sharing of goals created by users.
- Added a good visual design and focused on user experience.
- Presented the app at AT&T Research office, New York.

Event Planner App: Android (Java, SQLite, JSON) *Jan – Apr 2015*
- Added estimated time for every user to reach the destination.
- Use of FourSquare API to locate restaurants near specified location.
- Use of Geo location to inform users.

New York Subway Model: Java, MySQL *Jan – Mar 2015*
- Created a model database based on actual MTA database (smaller).
- Assisted the user with optimal path from one station to other.

Online Social Networking Music Website: Java, MySQL, JavaScript, HTML, CSS. *Nov - Dec 2014*
- Used recommendation algorithms into the system to give suggestions to the user.
- Fans can RSVP for concerts to concerts and check availability of seats for concerts.
- Effectively used triggers to keep the avoid anomalies and ensure data normalization.

Lind Fuse File System: Python, SQLite. *Oct - Nov 2014*
- Contributed to the Open Source Lind Fuse File system to make it work for block devices.
- Modified the system calls to support the changes.

ACHIEVEMENTS

- Secured third position in **Code For Good** Hackathon organized by JPMorgan Chase and awarded best technical team. *Oct 2015*