

# ABHINAV AGRAWAL

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Availability: May - Dec 2019

## EDUCATION

**Northeastern University**, Boston, MA - Candidate for a Master of Science in Computer Science May 2020

Related Courses: Program Design Paradigms

**Manipal Institute of Technology**, Manipal - Bachelor's Degree in Information Technology, India May 2017

Related Courses: Database Systems, OOPs, Information Retrieval, Operating Systems, Internet Technologies

## TECHNICAL KNOWLEDGE

<b>Languages:</b>	Java, Python, JS, HTML5, CSS3, SQL, NoSQL, PHP, Bash, C++, $\text{\LaTeX}$
<b>Frameworks &amp; Libraries:</b>	Spring, Angular5, Bootstrap, D3.js, ExpressJS, JQuery, Pandas, PyMongo
<b>Databases:</b>	MySQL, MongoDB, MS SQL Server, Oracle 10g
<b>Cloud &amp; DevOps:</b>	Google Cloud Platform, AWS Elastic BeanStalk, Digital Ocean, Git, Docker, Jenkins

## WORK EXPERIENCE

**BlackRock Services India Private Limited**, Analyst, Gurgaon, India Aug 2017 - Apr 2018

- Assisted in revamping the existing monolithic architecture to a **Container**-ready architecture using **Microservices**; Researched pros and cons of OAuth, SAML, Single Sign On, NginX, Apache for the new architecture.
- Created generic Angular 5 components for developers; Developed front-end views for displaying analysis reports.
- Deployed back-end APIs using Spring; Executed NoSQL queries to fetch data from Cassandra DB.
- Devised Groovy scripts to setup projects on Jenkins and Sonar; Enforced Gitflow Workflow for all projects.

**BlackRock Services India Private Limited**, Software Developer Intern, Gurgaon, India. Jan - Jul 2017

- Fixed all information security issues found across **Java, JS, JBoss and Apache Config** in the web-apps.
- Liaised with teams across global offices to implement and deploy fixes; Conducted monthly con-calls.
- Conducted python sessions within the team to help automate application health checks and maintenance.

**Siemens Industry Software (India) Pvt. Ltd.**, Technical Intern, Gurgaon, India. Jun - Jul 2016

- Created a JAVA file parser to extract geometry and metadata from JT open file format (used for 3D modelling).
- Extended the tool using **Blender Python API** to enable lossless imports of files into Blender rendering tool.

## PROJECTS

**Symphony Chat Summarizer**, BlackRock Services India Private Limited, Gurgaon, India Apr 2018

- Developed a **Text Summarization** engine for Symphony chat-application during an internal hackathon.
- Implemented **Text-Rank** algorithm on python to extract the most relevant messages from a conversation.
- Created conversation clusters on the basis of date and time via K-Means clustering algorithm.

**Career Portal**, Manipal Academy of Higher Education University, Manipal, India 2016-2017

- Headed the college career portal team which maintained the official website used by 3000+ users each year.
- Developed the web-app on **LAMP** stack; Deployed the application via NginX on a dedicated **Linux** server.

**CodeTrip**, Manipal Academy of Higher Education University, Manipal, India Oct 2016

- Suggested trip routes between input cities using **ScikitLearn Model Evaluation API** and Pandas.
- Developed an **Angular 2** web-app with **Google Maps JavaScript API** to interactively input cities.

**BuzzMiner**, Manipal Academy of Higher Education University, Manipal, India Apr 2016

- Created a web app to suggest ideal locations for a mobile phone launch on the basis of social media feedback.
- Implemented Naive Bayes Algorithm in PHP to perform **Sentiment Analysis** on tweets across each country.

**The Book Hub** (Pet Project), Manipal, India 2014-2016

- Devised a solution for the lack of libraries in Manipal by initiating an online repository of e-books.
- Extended the website to facilitate lending and purchase of physical copies within the college campus.
- Recruited and managed a team of 15 students; Reached a peak rate of 10 thousand visitors per month.