

# ABHINAV AGRAWAL

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## EDUCATION

Northeastern University, Boston, MA - Master of Science in Computer Science May 2020

Related Courses: Program Design Paradigms, Database Systems

Manipal Institute of Technology, Manipal, India - Bachelor's Degree in Information Technology 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++, L <sup>A</sup> T <sub>E</sub> X
<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, Git, Docker, Jenkins

## WORK EXPERIENCE

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

- Experimented with Kubernetes, Docker, Single Sign On using OAuth, NginX, and Apache to advance the existing monolithic architecture to a **Container**-ready architecture with **Microservices**.
- Devised generic Angular 5 components for developers; Designed front-end views for displaying analytics.
- 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 web-apps.
- Liaised with teams across global offices to execute and deploy fixes; Conducted monthly con-calls.
- Conducted python sessions to help team automate application health checks and maintenance.

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

- Built a JAVA file parser to extract geometry and metadata from JT open file format (3D modeling).
- Further leveraged **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.
- Clustered conversation on the basis of date and time by leveraging K-Means clustering algorithm.

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

- Oversaw the college career portal team; Maintained the official website with 3000+ users each year.
- Developed the web-app on **LAMP** stack; Deployed 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 according to 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 lack of libraries in Manipal by initiating an online repository of e-books.
- Added new features to facilitate lending and purchase of physical copies within college campus.
- Recruited and managed a team of 15 students; Reached a peak rate of 10 thousand visitors per month.

## EXTRACURRICULAR

Jamming (Guitar), Reading, Freelancing (Web-Dev), Travelling