RAJAT GARG
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SUMMARY
- 1+ year of work experience in Software Technology.
- Experience in building SSR SPA development, resuable UI components and **MVC** architecture applications.
- Experience in performance improvement with workload distribution using **Hadoop**, **Spark**, **Dataflow**.
- Working as Software Engineer with TetraMedia Pvt. Ltd. (Fintech)
- Previously worked with Hudson Data, Quantinsti(Intern), Samsung R&D(Intern)
- Computer Science, B.Tech from Indian Institute of Technology, Kharagpur

WORK EXPERIENCE
Tetra Media Pvt. Ltd. | Software Engineer | Nov'19 – Present
Built a web-based solution that reconnects business, clients with payout workflow and invoice generation.
- Developed APIs with **ACLs** on **Laravel** framework over active record pattern.
- Developed the user interface by using the **ReactJS, Router, Redux and Flux** for **SPA** development.
- Deployed web application on **Nginx** server and involved in **CI/CD** process implementation using **Jenkins.**
- Environment: MySQL,AWS,JS/ES6,PHP,GIT,JIRA   Libraries:**react-***(boostrap, table, redux, window)

Hudson Data Pvt. Ltd. | Data Engineer | Mar'19 – Nov'19
Devops engineer. Developed a software solution to create graph structures from relational databases.
- Developed an **asynchronous django** RESTAPI for graph creation service using **MVT** architecture.
- Deployed and tested graph server and client-utility on **Google Cloud Engine** VM instances.
- Built **JAVA** connectors to connect databases **MySQL**, **PostreSQL**, **BigQuery**.
- Environment: Python,JAVA,CentOS,GCP,RabbitMQ   Libraries:rest-framework,celery,channel

INTERNSHIP EXPERIENCE
Quantinsti Pvt. Ltd. | Researcher | May'18 – Jul'18 | Dec'16 - Jan'17
Developed an automated optimised technical pattern(charting) search. Created an AI based strategy.
- Created a strategy on **gradient descent** alogrithm using recurrent reinforcement learning(**RRL**)
- Documented and backtested strategies on a well-built trading platform Quantra on python **zipline** package.

Samsung R&D | Summer Trainee | May'17 – Jul'17
Analysed models for blood glucose concentration monitoring systems using non-invasive techniques.
- Applied computational model on absorption index of multi-wavelength spectra passed through the blood.
- Estimated the glucose concentration of the subject using **kalman filter** over the series of absorption index.

PROJECT
Recommendation of Wikipedia Pages | Summer Project | May'16 – Jun'16
Programmed an automated parallel processing script to scrap wikipedia pages.
- Parse the data using HTML nodes and ranked documents using **tf-idf** based on user query.
- Built functionality parallel operations for text-search using **Apache Spark.**

Travel Agency Automation Software | Term Project | Mar'16 – Apr'16
- Design and Development of **JAVA** based travel agency management software.
- Compute the profit corresponding each vehicle with the built-in operations to run agency.

RESPONSIBILITIES / CERTIFICATES / ACHIEVEMENTS
- Team Member, Kharagpur Data Analytics Group
- Coursera, Big Data Essentials, Yandex (**specialization**) – 4UTZMTVLVY2Z - Hadoop, HDFS, MapReduce, Spark
- Coursera, Applied Data Science with Python (**specialization**) - LM74P8XQFHUA
- Coursera, Machine Learning, Andrew Ng – KFZKX48CSCWN – Regression, Decision trees, SVM, ROC, F-score
- Achieved 290th rank in JEE-Advance, 2014.
- Represented Madhya Pradesh in chess at School Games Federation of India-2010

ACADEMIC DETAILS

Year	Degree/Exam	Institute	CGPA
2014-18	B.Tech	Indian Institute of Technology, Kharagpur	6.36 (out of 10.0)
2014	12th	MP Board	84%