

# RAJAT GARG

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## SUMMARY

- 1+ year of work experience in Software Technology.
- Experience in building SSR SPA development, reusable 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 process 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**-(bootstrap, 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, PostgreSQL, 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** algorithm 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 290<sup>th</sup> 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%