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Ajitesh Tiwari

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I am a passionate computer engineer, programmer, full-stack developer and designer with 2 years of experience. I have good problem-solving skills and want to solve complex real-world problems. I love to work on new technologies and enhance my skill set.

Education -

Course	Institution	Year	CGPA/Percentage
B-Tech (CSE)	SRM University, Chennai.	2013-17	9.55
12th	City Montessori School, Lucknow.	2012-13	93.75%
10th	City Montessori School, Lucknow.	2010-11	92.40%

Technical Skills -

Languages: Java, JavaScript, SQL.

Frameworks / Libraries: Spring framework, Swagger/RAML specification, JPA, JHipster, ReactJS, Redux, RabbitMQ, Android SDK, Bootstrap.

Architectures: Microservice, Graph-QL, Single-Page-Application (SPA), Model-View-Controller (MVC).

Tools: Git, Docker, Jenkins, Microsoft azure cloud services, Firebase.

Work Experience -

Mr. Cooper - *full-stack polyglot developer* Chennai, TN | *June 2017 to Present*

Microservices -

- Worked on building/supporting a gradle project with 20+ spring services using contract first approach. These services were used to empower most of the organization workflow.
- Contract first approach generated code from pre-defined RAML specification which helps client teams to work simultaneously, decreasing development time.
- All services are deployed separately with multiple instances with HA-Proxy load balancer in between.
- Used rabbit-MQ to make inter-service communication scalable and resilient.
- JUnit testing helped us to create bug free services.
- Graylog cluster is used for log management and debugging all the microservices.

Notification Framework -

- Worked on building real-time and batch notification system used to send e-mail(s) and push-notification(s) to live customers.
- Used spring-batch and quartz scheduler to schedule jobs to read from database and send notifications to respective customers.
- Supports dynamic templating and allows customer to (un)subscribe to specific notifications.
- Created a pagination endpoint which is used to get a list of all notifications send to a customer using various query parameters.
- Used azure notification hub to send push notifications to mobile devices (iOS and Android), and SMTP server to send e-mail(s).

Mr. Cooper - *software engineering intern* *Chennai*, TN | *Dec 2016 to May 2017*

Mr. Cooper Mobile (Android) -

- Worked on building an android application which has 100,000+ downloads on google play-store.
- This application can be used to check loan-balance, FICO score and payment due date.
- It can also be used to make a one-time or partial payment and check payment history.
- Used google analytics to analyze user behavior and bugs arising in the application.
- Used espresso to perform UI testing on various devices.
- Used android debug bridge (ADB) to remotely connect devices and perform testing.

Personal Projects -

Uber data analysis - *June 2018*

- Scraped Uber website to get data of ride history using chrome web-driver and selenium.
- Used google co-labs (jupyter notebook) to clean and analyze data. Helped me to know how much I had paid google in total, average cost of various uber rides, etc.

Joker - *June 2016*

- Android application built using Gradle App Engine plugin as backend and available on Google Play Store.
- Includes both free and paid flavors along with multi project build configuration to compile multiple libraries.

Stock Hawk - *April 2016*

- Application built using Yahoo Finance API and available on Google Play Store.
- Displays stock information using a graph with zoom and supports English, Arabic (RTL) and Hindi language.
- Application is accessible to sight-impaired users using Google Talkback and also includes a widget.

Popular Movies - *January 2016*

- Android application built using The Movie Database (TMDb) API and available on Google Play Store.
- Displays 'Most Popular' and 'Top Rated' movies along with details (Plot, Rating, Reviews, Trailers, etc.).
- Supports Multi Pane tablet view and sharing of movies on other platforms.

Publication -

Surge Pricing Predictor in Taxi Market - *International Journal of Pure and Applied Mathematics*
Volume 115 No. 6 - 2017, 605-610 - ISSN: 1311-8080 (printed version) and ISSN: 1314-3395 (on-line version)

The cab platforms adjust their prices using a specific algorithm which is real time and dynamic known as “Surge Pricing” or “Dynamic Pricing”. This algorithm automatically raises the price of a trip when the demand increases more than the supply. The surge algorithm generally outputs a multiplier which is adjusted along with the base fare, the price per mile and the price per minute to generate the final price. This price is communicated to the riders and the ride is initiated when they confirm to the price shown. This surge multiplier is kept discrete and may range from 1.2 to the maximum allowed by the government based on geography. Our experiment helps in predicting surge pricing ahead of time, considering the previous trends.

Certifications -

- Android Developer Nanodegree - **Udacity**.
- Introduction to Computer Science and Programming Using Python - **EDX.**
- Programming, Data Structure and Algorithm - **NPTEL**.
- Introduction to Programming in C - **NPTEL.**
- Object Oriented Programming in Java - **Coursera.**

Achievements –

- Received scholarship for Android Nanodegree program on Udacity from Google India and Tata Trust.

Place - Chennai, TN **AJITESH TIWARI**