RAJAN TEOTIA

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OBJECTIVE

To work in a motivating environment and attain good knowledge of my work diligently that will enhance opportunities for advancement of the organization with a progressive career possibility

EDUCATION

Program	Institute/School, City	Board/University	% / CGPA	Year of Completion
M. Tech. (Electronics)	Pondicherry University, Pondicherry	Pondicherry University	8.18	2015
B.E. (ECE)	Technocrats Institute of Technology & Science, Bhopal	RGPV	71.50	2012
XII	St. Francis Convent H.S. School, Raisen	MPBSE	84.44	2008
X	St. Francis Convent H.S. School, Raisen	MPBSE	89.20	2006

SCHOLASTIC ACHIEVEMENTS

- **AIR** - **8274** in **GATE** - 2013 (97 percentile)
- **AIR 28** in Pondicherry University Entrance Exam for M. Tech.
- Secured **5th Rank** in **Class X** in **District Merit List**

SKILLS

- Java, Spring, Spring Boot, Servlet/JSP, HTML, CSS, jQuery, Javascript, ReactJS, Kafka, AWS, Python, Git
- IntelliJIDEA, PyCharm, Eclipse, VSCode
- MySQL, PostgreSQL 10, DynamoDB
- AWS ECS, AWS ECR, AWS S3, Kafka.

PROJECTS

- **Cyber security - Tenable**
  - The project is centred towards the security of machines on the cloud on which a number of applications run.
  - The various languages and frameworks used include Kotlin, Groovy, ReactJS, Python.
  - The tools used namely, Apache Kafka, Apache Airflow, AWS ECR and ECS services.

- ○ DB used in the project is PostgreSQL with citus as add-on feature to manage sharding on the tables for quicker data fetching and reduced response time for a query.
- ○ Based in user roles the access to different levels of code and UI is managed.

- ● **DX-Things Monitoring System**
  - ○ The project is an enhancement of an existing open-source project. The core code is written in Java with Spring Boot. Kafka was used to transfer data from devices to the UI.
  - ○ The various protocols viz., HTTP, MQTT, RabbitMQ, are used
  - ○ The project also has ability to send email on all account related activities and alarm generation based on the rules defined by the user.
  - ○ The enhancement to the project was the use of SNMP protocol for the observation of SNMP device performance and send the real-time telemetry to the UI.
  - ○ 3-tier hierarchy is used for the user viz., Super Admin, Admin and User
  - ○ The Super Admin can create and add users with Admin rights
  - ○ The Admin can add devices for observation, Users, Dashboards and rules and action for the alarms that will be generated after the rules is satisfied.
  - ○ The user will only be able to see the Dashboards assigned to him by the Admin and observe the data presented for analysis.
  - ○ A single Dashboard created by the Admin can be shared between different Users.

- ● **Data Centre Monitoring System**
  - ○ The project includes four sections, core, middleware, frontend and SNMP extension
  - ○ Using of OSGi Framework for the core, Spring Boot with gradle for middleware, React JS for frontend and SNMP protocol to communicate with device and get data over the API
  - ○ For remote devices, such as UPS, manage the activity and monitor the current working status from remote location
  - ○ Get updates specific to the alarming activity on any device under scan
  - ○ Store data from the device in DB and filter using template engine
  - ○ Alert the observer as per the subject alarms
  - ○ Show the alerts from the device through the middleware on the UI
  - ○ Manage the user access to the different sections of the UI
  - ○ Add different companies/user as per the access given by the Admin

- ● **Windows POS Application**
  - ○ The world has seen and been familiar to the POS for the retail market and not considering the Cannabis industry as a potential market
  - ○ POS Application development for the Cannabis industry for medical purposes
  - ○ The application covers the employee management, user management and inventory management
  - ○ Management of inventory with different work areas
  - ○ Receiving Purchase Order inventory bifurcated with supplier, department, etc
  - ○ Transferring inventory to different work areas and maintaining the matrix pricing of items
  - ○ Introduction of Home delivery feature with the POS
  - ○ The POS user can place a order, create a specified route, assign inventory to driver for upsale on-the-fly and start/end route
  - ○ The driver receives appropriate push notification on the activity managed by the POS user

- Promotion/Discount/Redeem Points from the POS for the specific customer in cash or home delivery considering the department/item/work area of sale
- Generating reports for sale, inventory, user-specific activity, employee, etc
- Manage SMS/email campaigning from the PoS itself
- Using Entity Framework for the API development and SQL for DB related works

- **Beacons**
  - Beacons, the latest ultra-small electronic device used for managing the crowd around
  - Google platform is used to push notification to the Android user when comes in beacons' proximity
  - Beacons having location, proximity, light, temperature and pressure sensors
  - User can manage to change the push notification message remotely attached to a particular beacon or a group
  - Easy to monitor the store and improve business

- **Home Delivery Android App**
  - Home delivery app for an *e*-commerce website
  - Session management after login and when going ON duty
  - Maintaining the delivery orders in cache memory of the mobile phone and updating every time a new order is pushed to the list
  - Removing delivered orders from the list and managing the undelivered ones.
  - Integration of push notification code
  - Driver location updated after going ON duty
  - User able to call customer from multiple screens
  - User able to see the most preferred route on Google Maps with navigation feature to the customer's address

EXTRA-CURRICULAR ACTIVITIES

TECHNICAL (Design & Build)
- **Intra-school Science Exhibition**: 2nd during World Physics Year   Jan'06
- **Inter-school Science Quiz:** 3rd during World Physics Year   Jan'08

OTHER ACTIVITIES
- **3rd** in Speech competition
- Anchoring in school & college
- Runner-up - Debate Competition

PROFESSIONAL EXPERIENCE

- Senior Software Engineer   - Delixus Software India Pvt Ltd (Aug'19 - Present)
- Software Engineer   - Fidel IT Services LLP (Mar'17 - Jul'19)
- Examination Manager   - Singhania University (Dec'15-May'16)
- Assistant Professor   - Singhania University (Aug'15-May'16)

PUBLICATIONS

- Rajan Teotia, Dr. T. Shanmuganantham, "CPW-fed Fractal Monopole Antenna for Dualband Applications", *10th International Conference on Microwave, Antenna, Propagation and Radio Science (ICMARS)*, Dec 9-12, 2014.

- Rajan Teotia, Dr. T. Shanmuganantham, "CPW-fed Dodecagram Fractal Antenna with DGS for Multiband Applications", *IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES)*, Feb 19-21, 2015.
- Rajan Teotia, Dr. T. Shanmuganantham, J. Gandhimohan, "CPW-fed Leaf Fractal Monopole Antenna for Multiband Applications", *International Conference on Circuit, Power and Computing Technologies (ICCPCT)*, Mar 18-19, 2016.
- Rajan Teotia, Dr. T. Shanmuganantham, "CPW-fed Dodecagram Fractal Antenna with DGS for Dual-band Applications", *International Conference on Circuit, Power and Computing Technologies (ICCPCT)*, Mar 18-19, 2016.

PERSONAL DETAILS

- Name   - Rajan Teotia
- Father's Name   - Mr. Ghanendra Singh Teotia
- Date of Birth   - 07 May 1990
- Marital Status   - Married
- Permanent Address   - 850, Opp. Khedapati Mata Mandir, Near Shri Laxmi Dal Mill, Rahul Nagar, Raisen - 464551 (M.P.)

DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Place -
Date -   **(RAJAN TEOTIA)**