SAURABH SALUJA

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OBJECTIVE
On a mission to create, innovate a new product

EXPERIENCE

• 1 Year as **Software Developer** - Freecharge/Snapdeal (01-Jul-2015 to 31-Mar-2016 Snapdeal**, SD-1**)

• 1 Year as **Software Developer 2** - Freecharge/Snapdeal (1-Apr-2016 to 31-Mar-2017 Freecharge **SD-2**)

• 3 Years Own Experience (From 1-Apr-2017 to Current in Python, Django, React Native, IOT)

INTEREST

- App Making, Algorithms, Automation, Sales, Entrepreneurship activities, Sketching.

PROJECTS

- A Social Based App (Django and React Native Self Learning Project, Just Started May 2021 to Current):
  A Small Social app with functionalities to comment, like, post images. This project focus on learning
  React Native, Django, Mongo-db, Web sockets and Redis.

- Retail Experience POS System (Django, Jan 2018 to Jan 2020): A Very Responsive POS Retail
  Management with following functionality:
  1. Inventory Management with QR (For Android App): All sort of inventory data operations like in POS
  Systems. Linking QR to each item for scanning stock by separate android app.
  2. Receipt Management: Added Addition into receipt, Return of items on a receipt, Updating the old
  receipts, Reverting Receipts, Multi level addition deletion.
  3. Items Management: Addition of Item, Updation of Item, Searching of Item with Shortcuts, Instant
  Search capabilities, Mapping of multiple item into one Barcode, Attaching Item to RFID.
  4. **Android App:** Scanning a barcode, Scanning combined item barcode, Uploading image for any
  barcode, Instant access of uploaded image using web sockets.

- Retail IOT Automation (IOT Hardware, Chip Making, Freelancer May 2017 to Jan 2018):
  1. A small IOT hardware tool to access stock information and generate receipt information.
  2. Created an end to end stock machine using Arduino.
  3. Created a small android app. An Application that can communicate with system for direct login. It can
  Scan QR to get instant stock details.

- Automatic Mirrors (Self Learning Project, Just Started, IOT (May 2017 to May 2017)): Sensor based
  mirrors.

- Automatic Irrigation System (Chip Making, Self Learning Project (May 2017 to May 2017)): Saving my
  watering time by a self made automatic tap that sprinkle water during morning time.

- A Spellchecker With User Taste for Recommendation System— (Machine Learning, Self Learning
  Project (Mar 2017 to May 2017)):
  Backend implementation of a machine learning back propagation algorithm from scratch using python.
  The algorithm looks for the nearest words. Threads work together to construct a sub neural network by
  using word tokens pattern, user history and give the nearest word recommendation. Link will be
  available soon.

- Dashboard Automation (**Freecharge**, Aug 2015 – Mar 2017): A dashboard that provides very easy way
  to deploy any set of api's within minutes. This gives the opportunity to deploy anything within no time

and without any errors as everything is automated. My work includes:

1: Created entire automation for deploying all methods of any client. Very few lines of code is needed for deploying any client apis. Automation is done using data structures recursive algorithms on java reflection methods. Any client can be added within minutes by following very few set of rules. The algorithm go recursively deeply into the client and make request generic json itself which UI can understand easily. UI creates data on screen on the fly based on generic data sent by the system. This api is then hit by user in a very generic way.

2: Everything is maintained in a generic manner so that all clients are compatible.

3: Created Logging plugin for storing request, response, user id related detail.

4: Created auth plugin for restricting user access to apis to specific clients.

5: Created responsive automatic UI. Here UI access generic response and make all kinds of tags using recursive data structure algorithms.

6: Created functionality to block unused API's or remove sensitive function of the client.

7: Created Permission management for users.

- Plugin's and Maintenance (**Freecharge**, Aug 2015 – Mar 2017): Creation of Plugins for controllers. My work includes:

  1: Audit Plugin: Created plugin for auditing. Added functionality of removal of sensitive information on request and response parameters.

  2: Authentication Plugin: Created plugin for checking user access rights on the hitting api.

  3: Maintenance of API's: Adding new Api's, Clients, Creation of new logics as per requirements.

- Bulk Tool (**Freecharge**, Aug 2015 – Mar 2017): A Configurable Bulk Tool. This bulk tool is used by operational team for tasks like block, enable, disable, transfer money, cash backs to users in bulk. I created bulk tool file processing system with the team. The file uploaded in a certain structure is processed line by line using threads and processing is done based on which api to hit on that line. The logic at each processing of line, retrial logic, storying data flags into system is done with me as a part of the team.

UNIVERSITY PROJECTS

- Chess Game (DSA) : Implementation of chess algorithm in Java backend. A human vs computer chess game where computer find the best move until a ply depth is reached. This is based on min max data structure strategy. Each piece is given a value according to how important the piece is for winning. Each attack adds or subtracts its score. The path with max positive value decides next move.

- Document stitching (Image processing) : Making a scalable algorithm to rectify the images and stitch them together to form high quality image. The algorithm is capable of handing distorted images formed by uneven orientation of different cameras.

EDUCATION

- Highest degree : B-tech in IT from VIT University (Batch 2011 - 2015).

Also available at https://in.linkedin.com/in/saurabh-saluja-a6605984
Website : https://iamsaurabhsaluja.github.io/index/
Code Chef: https://www.codechef.com/users/saurabh_saluja