Utkarsh Singhal

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EDUCATION

- **Indian Institute of Technology Ropar** — India
  Bachelor of Engineering in Electrical; CGPA: 8.09 — *June. 2013 – May. 2017*

EXPERIENCE

- **Livspace** — Bangalore India
  SDE II — *Oct 2018 - Present*
  - **Property Management System**: Re architecture of PMS system. Integration of property in lead form has improved the user conversion by 4%.
  - **Data Scrapper**: Scrapped property from different websites for the PMS system and created a generic system to parse the data. After scrapping we have about more than 1 Lakh properties in our system
  - **Address Service**: Re architecture of existing Address service.

- **Zomato** — Gurgaon, India
  SDE I — *June 2017 - Sept 2018*
  - **User Address Selection Workflow**: Improved the menu to cart conversion by 24% by redesigning user store selection workflow for vendors from old locality and sub-locality based selection to Geo location.
  - **Generic Vendor API Integration's**: Generic API created for vendors like Domino's, McD, Pizza Hut, and KFC to avoid custom API integration. Wrote an integration layer for the smaller merchants to improve the on-boarding process.
  - **SOAP to REST API Library in PHP**: Wrote a wrapper library over SOAP library it converts SOAP request to CURL. Limitation of existing PHP SOAP libray is API timeout which can be handled by this library
  - **Recommendation Items for Restaurant**: Build a system to get the recommended food items for a restaurant based on the previously ordered items and best seller items.
  - **Async Order Confirmation Flow**: Created a workflow where we send the order to 3rd party systems they acknowledge the order, then using the callback API they confirm the order. Async workflow has improved the order discrepancy issues and reduced the burn out for vendors to about 40 Lac/ month/ vendor.
  - **Item image upload**: Created a dashboard using which merchants can upload the images of the items which goes through the moderation process before being visible on the App.

PROJECTS

- **Hot-spot Password Sharing using Acoustic Networking**: A mobile app was developed which included two features: Senders App: The input hot-spot password was converted into chirp signal then transmitted. Receivers App: It receives the signal, decode the password from it and gets automatically connected to hot-spot.

- **Automatic Projection Matrix Calculation**: Developed an application which automatically calculates the Projection Matrix from the given set of images of 3D structure of know dimensions. It is used for detecting speed for a real-time vehicular systems.

- **Full Duplex Communication in Co-operative Networks**: Transmitting and receiving data at the same time to increase throughput. Network coding techniques are used to save time slots in co-operative networks in full duplex mode.

PROGRAMMING SKILLS

- **Languages**: Python, PHP, SQL, Java, GO   **Technologies**: Django, Redis, Memcache, RabbitMq