

# RITIK GANDHI

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## Education

### University of Alberta

*Masters of Science in Computer Science*

Edmonton, AB

Sep. 2022 – Present

### Shri Govindram Seksaria Institute of Technology and Science

*Bachelors of Technology in Computer Science | CGPA: 8.48*

Indore, India

July 2018 – May 2022

## Experience

### Licious

Feb 2022 – June 2022

*Software Development Intern*

Bangalore, India

- Architected the UI overhaul on the web platform reaching over **950,000+ customers**
- Built **20+ components** consisting Accordion, Carousel, Filters and integrated their respective services and APIs
- Responsible for adding events and analytics that get triggered when the user clicks a specific page
- Collaborated with design teams to improve checkout flow and order experience, increasing **conversion rates by 11%**
- Relocated a multi page user experience into a single page application along with migration of legacy web apps, improving **performance of the website by 33%**
- Integrated different payment gateways like Paytm and GooglePay, **increasing revenue by 17%** in the first quarter

### Persistent Systems

June 2021 – August 2021

*Machine Learning Intern*

Pune, India

- Worked on car damage prediction, classification and severity for an automobile insurance company
- Used **WPOD-net** model to detect license plate from the images and **Pytesseract** to predict license plate number
- Compared different models such as **VGG16, VGG19, DenseNet and Resnet50** to determine whether the car is damaged or not and finalized **ResNet50** with an **accuracy close to 89%**
- Identified and localized the damaged car part using **YOLOv5** model and had a confidence score for each bounding box
- Based on the severity classified the damage of the car as Minor, Moderate and Severe and chose **DenseNet** with an **accuracy of 81%** and choosing Adam optimizer due to fast convergence

### Techcoopers

May 2019 – June 2019

*Software Development Intern*

Indore, India

- Devised website's frontend using HTML, CSS, and ReactJS to enable enterprises to register devices for Device Manager
- Incorporated AWS Cognito for user authentication and automated the website with AJAX API calls which enhanced the **performance by 35%**
- Displayed the user database using the Data Tables jQuery plugin

## Projects

### Body Mass Index Prediction using Facial Images

August 2022

- Predicted BMI of a person based on an image and providing a scheme of a balanced lifestyle to maintain a healthy shape
- Extracted face from image cropping and also used the **ResNet-CNN** model exploiting its pre-trained weights on **ImageNet** dataset
- Using Recipe Search and Diet API, recommended diet to the user based on calorie intake and food preferences

### Curem - Customer Relationship Management Tool | Django, PostgreSQL, AWS RDS, Heroku

November 2021

- Utilized Msg91 Integration for **OTP authentication** and incorporated **social-auth-app-django** for social app login
- Replaced SQLite with PostgreSQL and achieved reduction in data fetch time using AWS RDS, S3, Heroku

### Apni Dukaan | ReactJS, Django REST framework, Postman

January 2021

- Full Stack E-commerce web application with services including Email-Activation and Payment Gateway
- Incorporated **RESTful** layer of APIs using DJANGO REST framework to **minimize server latency**
- Consumed REST API (tested using Postman) to render out data in React front end

## Technical Skills

**Languages:** C, C++, Python, Java

**Databases:** MySQL, PostgreSQL, MongoDB

**Web Development:** JavaScript, TypeScript, ReactJS, NextJS, NodeJS, ExpressJS, HTML5, CSS, Django

**Key Courses:** Data Structures and Algorithms, Operating Systems, Database Management, Machine Learning