Himanshu Patel

Full Stack Developer

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SKILLS

Frontend Development: HTML, CSS, JavaScript, jQuery, Bootstrap, React.

Backend Development: Django web framework, Django Rest Framework, MySQL, ORM. Integrating internal API with other API's like Google Translate, AutoCrop, Payment Gateways and Subscription Models.

API Testing and Development: Postman, Swagger (Auto document REST API), PyTest and Coverage and for Python API testing and checking coverage of unit testing.

Deployment and Tools: Git and GitHub, AWS S3 bucket, AWS Linux Server (EC-2), Heroku, Python Anywhere, Docker, JIRA for Agile process, Slack.

Machine Learning: Python 3, Numpy, Pandas, Matplotlib, Jupyter Notebook, Spacy, Google CoLab

EDUCATION

Bachelor of Technology   CGPA: 8.97   *August 2017 - May 2021*
Computer Science and Engineering
National Institute of Technology Uttarakhand

ACHIEVEMENT

- **Code Forces** – Specialist (Highest Rating Achieved - 1406)
- **Problem Setter for Python** – Cut Short developers hiring platform
- **Winner Virtusa Neural hack 2020** – Winner of Hackathon out of 50K registered participants. Won title of "King of Neural Hack" for being the best performer.

EXPERIENCE

- **Golcha Group: Django Backend Developer Internship** (**Product Development from scratch)**
  Duration: 1-Jan-2021 to Current date (6 Months)
  - Developed a REST API backend for a series of products. Optimized and maintained legacy code. Created several endpoints with different request privileges based on user type. All using Django and Django REST framework with REST Auth for Token authentication.
  - API provides user registration and login in several methods (OTP, gmail, username etc.) done using OAuth and other social logins. CRUD operation by logged in users using GET, POST, PATCH and PUT requests.
  - Introduced Context type framework in project to implement polymorphism in foreign key. This reduced code by 30% and optimized efficiency 3x. reduced searching 3 different databases to a constant time operation.
  - Integrated Firebase Push Notification in REST API for different events and endpoints for android and iOS users to update their FCM token when required.
  - Written test cases for automation in unit testing and check coverage of code while testing. On average there was 91% coverage of code. Testing of API (speed, security, and availability) is also done using one postman tool. Integrated YASG (Yet Another Swagger Generator) auto API documentation tool.
  - Implemented Async Chat Server using django channels and Redis as In-Memory database. Provided authentication in websocket requests. Accepting HTTP and WebSocket requests on the same server. Added feature of push notification for Android and iOS when the user is inactive in chat.
  - Followed Agile Software Development with daily scrum meetings and task updates on JIRA and Slack.
  - Code reviews and pushing code to remote repo with version control using Git and tagged release of software and resolve conflicts in merging branches if occurred.

Virtusa: Machine Learning and Neural Network for Reconciliation of Records

Duration: 21-Sep-2020 to 30-Nov-2020 (2 Month)

- Trained a Named Entity Recognition Model using Spacy Library. Achieved 90% accuracy.
- Performed data preprocessing on raw data and using model extracted Named Entities from random text data. Correct the datatype of time, date, amount, etc.
- Based on several parameters of a given record (Bank Transaction) find the best possible match from a given Database Record. And Predict the match percentage based on the Fuzzy match of string and approximate match of numbers and dates.
- Classified the records as Fully matched, partially matched or not matched with 80% Accuracy.
- Converted this solution to a Django based dashboard and Deployed it on Heroku.

Prof-Cess: Python Developer Internship (Django Framework)

Duration: 15-July-2020 to 15-Sep-2020 (2 Months)

- As a part of training we developed a web app where users can register and write blogs and comments on others. Upload their profile pics and get their accounts verified (email verification). Finally Deployed the app on Heroku after testing.
- Develop a login and signup facility for users with a dedicated profile page, email verification. So that different users can have different login privileges.
- Developed a resume builder from scratch. Fill the form, select the template, and get your resume as a PDF.
- Developed mail sending service from scratch with the flexibility of choosing a mail ID different from a registered mail ID for activating an account and getting updates.