

Bhanu Upreti

Junior Software Engineer

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Summary :

Skilled Python developer with expertise in data structures, algorithms, and MVT patterns. Proven ability to design and develop robust, scalable applications.

Technical Skills & Abilities :

Programming Languages : Python ,Core Java, Javascript.

Libraries: Numpy ,Pandas ,Matplotlib ,Seaborn

Technologies & Framework : HTML5 , CSS3 , Bootstrap5 , Django framework, Django ORM, Django Rest framework , Jquery , Ajax , AWS EC2 , AWS Lambda, Docker, Nginx, Celery , Cron.

Databases: MySQL,Postgresql.

Data Structures and Algorithms (DSA): Proficient in fundamental data structures and algorithms for problem-solving and algorithmic analysis

Tools: Vs-code, pycharm, Github, Postman.

Work Experience :

Full-Stack Python developer
Company: Simprosyt infomedia

04/2023 - present
Ahmedabad, Gujrat

- Worked in Python, Django, DRF, and Flask to build applications and REST APIs.
- Worked on Google content Api and Shoptline API , and good understanding in product management and Ads API.
- Work closely with cross-functional teams, including other developers, designers, product managers, and QA engineers, to deliver high-quality software solutions and Proficient in Docker, NGINX, and Unicorn.
- Developed custom JWT-based authentication solutions to securely authenticate users and authorize access to protected resources, mitigating unauthorized access and potential data breaches.
- Implemented authentication and authorization mechanisms using OAuth 2.0 and JSON Web Tokens (JWT) and Google reCAPTCHA to enhance security measures.
- Employed third-party packages like django-allauth ,Django OAuth Toolkit, Django-tenant and Django-debug for debugging.
- Create and maintain relational databases like MySql ,PostgreSQL and worked with multiple schemas.
- Managed version control using GitLab, facilitating collaborative development.
- Test and debug code to ensure the quality of an application.
- Familiarity with front-end technologies such as javascript, jquery, and Ajax.

Projects:

1. Central and partnership dashboard Application.

Partnership application link -> <https://partners.simprosys.com/>

Central Dashboard link -> <https://cdadmin.simprosys.com/central-admin>

- Developed and implemented a centralized dashboard application for efficient resource management across multiple applications and partnership for agencies and only users with an email ending in simprosys.com can access this.
- Implemented Ajax datatables to display data efficiently and manage user activity and exceptions within the application and used libraries like chart.js for showing data in graphs for analysis.
- Integrated **social** login for simplified authentication processes, used **celery beat** to run the task periodically.
- Utilized REST APIs to securely fetch data from diverse applications and used multiple schemas in postgresql.
- Implemented granular role and permission modules to restrict user access based on specific roles. Implemented Google reCAPTCHA to enhance security measures, mitigating against automated bot attacks and ensuring robust protection for web applications.
- Implement AES(Advanced Encryption Standard) to encrypt API Keys which are used in REST API's and used libraries like secrets to generate keys.
- Implemented store verification of merchants who use our plugins using store id, aligning with platforms such as Shopify and Shoptline.
- Integrated applications via REST APIs, ensuring secure authorization and data retrieval based on individual user requirements.

2. Custom OAuth2 server provider.

- Created a custom **OAuth2** provider in django like Google **OAuth2** where a client application can register itself from UI as well through a single button.
- Client provides a redirect uri where it will redirect and after authorizing a random code generated and using that code client will request for token and generate access token and refresh token and using that token a client can access protected resources.
- Creates a different endpoint for generating the tokens. For generate token clients have to pass it's client credentials and a random code which is generated by my server.

3. Ecommerce Application.

- Built an E-commerce application with user registration, login, and cart management. Integrated secure **PayPal gateway**. The interface should allow users to browse products or services easily, view details, and make purchases securely.
- Implemented authentication, URL validation, and product display. Utilized flexible class-based and function-based views. Required login for cart access, enhancing **security**.

4. URL Checker:

- Implemented a scraping-based project using **Django framework**, **Beautiful Soup**, **AWS Lambda** and **Selenium** web driver. Divided into three modules:
 1. Utilized Beautiful Soup and AWS Lambda to check URL indexing on Google.
 2. Scraped citations from Google search and stored in database and also display the citation to the user.
 3. Employed Selenium WebDriver to extract data in background from Google Maps automatically using **cron jobs**. To run selenium in background i use celery and cron for scheduling other tasks.

Education:

Bachelor of Computer Applications(BCA) from **Raja Balwant Singh Management Technical Campus Agra, Uttar pradesh.**