

Ashwin VK

Full Stack Python Developer

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Profile

As a Full Stack Developer, I bring proficiency in Python Full Stack Development, specializing in Django REST and React, along with a Bachelor of Engineering in Computer Science Engineering. My expertise includes designing RESTful APIs, implementing front-end technologies like HTML, CSS, and JavaScript, and collaborating effectively within teams to deliver innovative solutions to real-world challenges.

Projects

Collaboration Website Using Django REST-React-PostgreSQL(COLAB), Bangalore 02/2024 - 03/2024

- Developed COLAB, a collaboration platform, from scratch using Django REST and React.
- Streamlined content creation process by enabling seamless file sharing between creators and editors.
- Integrated payment processing through Razorpay and authentication via Google Login.
- Utilized AWS S3 for media storage and automated video uploads to YouTube using Celery and Celery Beat.
- Hosted back-end on AWS EC2 and front-end on Vercel for scalability.
- Secured application with JWT authentication and utilized Redis for real-time data transfer.
- Implemented live chat and video call functionalities using Web-sockets.
- TTime Saved: Creators saved 20-30% per project.
- Bandwidth Usage: Reduced by 30-40% by eliminating redundant uploads.
- Efficiency: Streamlined processes led to 25-35% faster project completion.
- [Live](#), [git](#)

E-Commerce Website Using Django (RUBY), Bangalore 11/2023 - 12/2023

- Developed website RUBY with Django, following MVT architecture.
- Implemented robust authentication, validation, and Razorpay for payments.
- Designed dynamic Admin panel for CRUD operations using Django's features.
- Crafted visually appealing pages with Bootstrap, HTML, and CSS.
- Utilized PostgreSQL for data management.
- Leveraged Django signals for automated actions.
- Deployed on AWS EC2 with Gunicorn and Nginx for performance.
- [Live](#), [git](#)

Mini Projects

User Management System using Django REST-React-PostgreSQL, ([git](#))

- Orchestrated the integration of React for a modern, responsive UI, offering seamless registration, login, and profile management experiences.
- Ensured structured and scalable data storage with PostgreSQL, optimizing performance and accessibility.
- Executed successful CRUD operations for user profiles, enhancing system flexibility and user interaction.
- Established token-based authentication with JWT, fortifying system security and user privacy to the highest standards.

Blog Website (Diary), ([git](#))

- Led creation of dynamic Blog with Django REST and React.
- Implemented Celery for task automation.
- Hosted on AWS for scalability and reliability.
- Leveraged Django REST for secure authentication and API endpoints.
- Integrated AWS services for media storage and deployment.
- Ensured data integrity with PostgreSQL.

Chat Application, ([git](#))

- Headed the development of a cutting-edge Chat Application, leveraging Django Channels to facilitate real-time communication.
- Spearheaded the implementation of a modern and responsive UI, ensuring seamless chat interactions for users.
- Established a secure and efficient back-end infrastructure using Django Channels, enabling real-time chat functionality with optimal performance and reliability.

Education

Python Full Stack Development,

Bangalore, Karnataka *present*

- BROTOTYPE

BE Computer Science, SDIT, Mangalore

Mangalore, Karnataka *2017-2022*

- Completed a project on ML with collaborative effort on Intrusion Detection of Imbalanced Network Traffic Based on Machine Learning and Deep Learning used various tools such as Difficult Set Sampling Technique(DSSTE), Edited Nearest Neighbor(ENN) algorithm, KMeans algorithm,
- Created a mini project of a webpage on online learning platform completely build on React JS. Used class based components for development and also deployed using heroku

Skills

- **Languages:** Python, JavaScript, HTML5, C/C++
- **Full Stack Web Development:** Django REST, Django, React JS, Redux toolkit, ORM, Tailwind CSS Bootstrap, AJAX, HTTP, React, Router Dom
- **Database:** PostgreSQL, MongoDB
- **Version control and other tools:** Git, npm, GitHub, Postman API
- **Deployment:** AWS EC2, AWS elastic, Gunicorn, Uvicorn, Nginx, Daphne, Vercel, Netlify
- **Design tools:** Figma, Canva
- **Hard Skills:** Data Structures, Algorithms, Object Oriented Programming
- **Soft Skills:** Problem Solving, Motivated, Excellent Communication, Teamwork and Collaboration