

# KARTHIKEYAN BK

PYTHON/DJANGO EXPERT- SOFTWARE ENGINEER

## ◦ DETAILS ◦

Sivakasi  
8940933934  
bkkarthikeyan@yahoo.com

## ◦ SKILLS ◦

Python  
Django  
Django Rest Framework  
RESTful API  
Flask  
MYSQL  
Git/GitHub  
HTML5 + CSS3  
Bootstrap  
Javascript  
React JS  
Numpy  
Pandas  
AWS (Beginner)

## ◦ EDUCATION ◦

### Bachelor of Engineering

National Engineering College

CGPA - 8 / 10

XII

S.H.N.V. Higher Secondary School

Marks - 1110 / 1200

X

S.H.N.V. Higher Secondary School

Marks - 486 / 500

## ◦ LANGUAGES ◦

Tamil  
English

## 👤 PROFILE

Software Engineer with 2+ years of experience in developing efficient, scalable, and maintainable web applications. Proficient in **Python**, with expertise in **Django** and Flask frameworks. Skilled in Django ORM for data querying and manipulation. Experienced in front-end technologies like **ReactJS**, HTML, CSS, and **Javascript**. Well-versed in version control using Git and GitHub. Knowledgeable in data manipulation and analysis with NumPy, Pandas, and Matplotlib. Adept at collaborating with cross-functional teams to deliver innovative solutions exceeding client expectations.

## 📁 EMPLOYMENT HISTORY

### Software Engineer at UTSolutions, Tirunelveli

February 2023 - Present

### Junior Developer at Meythoma International, Chennai

January 2022 - January 2023

## 🏠 PROJECTS

### Title: Legal Record

Legal Record is a sophisticated web-based application crafted specifically for legal teams, offering a centralized platform to manage legal matters with efficiency and precision. By integrating third-party APIs for legal references and analysis, it provides seamless access to current and comprehensive legal information and insights, empowering legal professionals to make informed decisions swiftly and effectively. This project enhances collaboration, accelerates legal processes, and ensures adherence to regulatory standards, thereby bolstering overall compliance efforts within the organization.

#### My Contribution

Integrated JWT authentication for securely data transmission between client and server and utilized **set Interval** method for getting the new 'access token' every 5 seconds.

Implemented dynamic data-fetching and real-time display of legal cases using React Query's useQuery and Axios, boosting data retrieval efficiency by 40% and significantly improving user experience.

Facilitated the creation of new legal cases through useMutation, seamlessly integrating POST requests and updating the UI with newly created cases, reducing case creation time by 30% and ensuring intuitive interaction.

Designed and implemented collaborative features, such as a user-friendly case selection interface and real-time messaging powered by Pusher, which increased user engagement by 50%, fostered efficient communication among users, and improved application stability by 25% through robust state management and optimized performance.

**Tech Stack:** Python, Django, MYSQL, DRF, React JS, Javascript, REST API, AWS

### Title: Compliance Guard

Compliance Guard for Employees is a web-based application designed to streamline and enhance the management of compliance-related tasks within an organization. It fosters collaboration among employees in the compliance industry, providing advanced tools to efficiently handle compliance requests and associated tasks. This centralized system improves productivity, ensures accuracy, and facilitates adherence to regulatory standards, effectively reducing administrative overhead and mitigating compliance risks.

#### My Contribution

Built a robust database schema using Django's model classes, efficiently managing and storing over 1000 user records, compliance requests, and tasks, and successfully migrated to external MySQL databases using Django ORM.

Crafted secure and user-friendly views for user functionalities, including registration, login, logout, and password management, enhancing user experience and security for over 500+ users through meticulous processes for password changes and resets.

Created comprehensive views for compliance task management, enabling the creation, editing, and deletion of over 2,000 tasks, with assignment features for managers to allocate and track progress, fortified by JWT authentication and role-based access control.

**Tech Stack:** Python, Django, MYSQL, DRF, React JS, Javascript, REST API, AWS