

Umair Karel

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EDUCATION

Dr. Babasaheb Ambedkar Technological University

Raigad, Maharashtra, India

Bachelors of Technology (B. Tech) in Computer Science

2019 - 2023

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C

Lib/Frameworks: Django, Django REST Framework, Flask, Celery, Sklearn, Pandas, Numpy, OpenCV, Tensorflow, BeautifulSoup, ReactJs, NodeJs, ExpressJs

Tools/Platforms: Git, Docker, Nginx, Linux, AWS

Databases: MongoDB, PostgreSQL, Redis, ElasticSearch

EXPERIENCE

Software Engineer

Sarvaha Systems Pvt. Ltd.

July 2023 - Present

- Led the re-engineering of front-end & back-end for the HIDS system to add customized features.
- Spearheaded the transitioning from single-tenant to multi-tenant architecture, expanding potential client base.
- Innovated UI redesign, enhancing performance and user experience, resulting in streamlined operations and increased user engagement.
- Delivered ML based project for stock market index forecasting enabling daily predictions with good accuracy.
- Implemented program to analyze the historical data to predict next-day index prices, establishing it as a crucial tool for trading decisions, significantly improving profitability with a measureable increase in successful trades.

Software Engineering Intern

Sarvaha Systems Pvt. Ltd.

Jan 2023 - June 2023

- Developed micro-service API with Flask, containerizing for improved deployment and scalability, facilitating efficient data scraping and storage in MongoDB.
- Integrated Celery and Redis for asynchronous task handling, reducing API load by 30% through efficient offloading of scraping tasks, optimizing performance.
- Automated data scraping via cron jobs, and enforced best practices utilizing dependency management, linting, automated formatting, and testing, resulting in a 50% increase in development efficiency and code quality.

Backend Developer Intern

Medpiper Technologies Pvt. Ltd.

Oct 2021 - Apr 2022

- Spearheaded engineering and maintenance of backend systems for JournoMed and CRM projects, leveraging Django and Flask frameworks.
- Implemented REST APIs with PostgreSQL and MongoDB databases, employing latest design and management practices.
- Facilitated smooth team communication by documenting the API, ensuring clarity in project development and collaboration.

PROJECTS

Dermata

- Built a deep learning mobile app for skin disease detection, attaining an impressive 80% accuracy on test datasets through effective implementation of transfer learning methods.
- Impacting millions of users to detect potential severe skin diseases at early stages, facilitating timely intervention and treatment.

EpicScribe

- Architected and implemented REST API backend utilizing Django and PostgreSQL for EpicScribe blog app, ensuring secure data management and efficient content delivery.
- Implemented additional authorization layer to validate user-generated content, ensuring only authorized blogs are published, thereby maintaining content integrity and enhancing user experience.

ACHIEVEMENTS

- **First rank** in college coding competition with 100+ participants.
- **Second rank** in online coding competition with 75+ participants.
- Certified with **Postman Student Expert** Badge.
- Certified with **Cloud Computing 101** AWS Badge.