

Bewin Felix R A

FULL STACK DEVELOPER

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Summary

Passionate tech enthusiast and student at Karunya Institute of Technology and Science, adept at web, mobile, and desktop development. With a keen eye for detail and a drive for excellence, I excel at translating ideas into innovative solutions that meet user needs effectively. Proficient in a variety of programming languages and frameworks. My experience in DevOps practices ensures seamless integration and delivery of high-quality software solutions. Eager to contribute my skills and learn from new challenges in the dynamic field of technology.

Skills

HARD SKILLS

- **Frontend Frameworks:** ReactJS, NextJS, jQuery
- **Backend Frameworks:** Django, Django RestFramework
- **Programming:** Python, JavaScript
- **Tools:** Postman, Docker, NodeJS

SOFT SKILLS

- Leadership • Decision Making • Communication • Teamwork • Problem-Solving • Adaptability

Education

Karunya Institute of Technology and Sciences (Deemed University)

B.TECH COMPUTER SCIENCE AND ENGINEERING

- Grade - 6.6

Coimbatore

Aug 2021 - Apr 2025

Evans Matric Higher Secondary School

MATHS - COMPUTER

- Percentage - 81

NGO Colony

Jul 2019 - Apr 2021

Accomplishments

Smart India Hackathon(SIH) 2024 (College Level)

HACKATHON

- Developed a lightweight agent software and endpoint firewall server with a centralized dashboard for dynamic firewall policy generation using Retrieval Augmented Generation and machine learning to block anomalous network events."
- Awaiting results for the national-level competition.

Smart India Hackathon(SIH) 2023 Finalist

HACKATHON

- Selected as Finalist from 44000 Teams participated in the National Level Hackathon Smart India Hackthon 2023 conducted by the AICTE and Ministry of Education, Government of India

Gujarat

Dec 2023

GDSC Karunya

MEMBER

- Active Participator and Member at the Google Developers Student Club, Karunya University

Coimbatore

Nov 2023

Kavach 2023 Finalist

HACKATHON

- Selected as Finalist from 3800 Teams participated in the National Level Hackathon KAVACH 2023 conducted by the AICTE and Ministry of Education, Government of India

Odisha

Aug 2023

TN-Police 2023 Finalist

HACKATHON

- Selected as Finalist from 300 Teams participated in the State Level Hackathon TN-Police 2023 conducted by the Tamil Nadu police Department

Chennai

Mar 2023

Projects

Enhanced EHR Security with Cutting-edge Cryptographic Algorithms for Web-Based Applications

DEVELOPER

Current

- Developing a secure web-based EHR system using Django, Django REST Framework (DRF), React, and PostgreSQL, integrating advanced cryptographic algorithms like elliptic-curve cryptography (ECC).
- Conducting comprehensive security analysis focusing on data confidentiality, integrity, and authentication with ongoing simulations and real-world testing.
- Implementing encryption techniques to protect healthcare data, ensuring robust access control and optimizing system performance.

Aptitutor

DEVELOPER

Jul 2024

- Developed an aptitude training platform that leverages AI to generate and provide shortcut methods for solving problems.
- Worked on the web server part using Django, Django REST Framework (DRF), React, PostgreSQL, and Docker for deployment.
- Implemented a robust backend and efficient frontend to ensure seamless user experience and high performance.

Guided Project Platform

DEVELOPER

May 2024- Jun 2024

- Developed a comprehensive guided projects portal using Django and Django REST Framework, enhancing the learning experience with robust backend services and secure data management via PostgreSQL.
- Implemented a dynamic and user-friendly frontend with React JS and Tailwind CSS, ensuring seamless user interactions and an intuitive interface for learners.
- Utilized Docker for containerization to provide users with the necessary tools and environment, ensuring consistency, scalability, and streamlined deployment processes.

Attendance System for KHacks

DEVELOPER

Jan 2024 - Mar 2024

- Developed an attendance and project tracking system for KHacks, featuring club-wise attendance management, project progress tracking, and real-time member activity insights. This system is designed to support the organization's need for precise data management and enhanced operational efficiency.
- The tech stack for this project includes Django and Django REST Framework for robust backend services, React JS and Chakra UI for a dynamic and user-friendly frontend, and PostgreSQL for secure and efficient data storage.
- As a backend developer, I implemented secure user authentication, access controls, and time tracking functionalities, and managed the API development for attendance and project data interactions, ensuring that the system is both efficient and scalable.

Sentiment Analysis for YouTube Video

DEVELOPER

Dec 2024 - Mar 2024

- Developed a comprehensive system for extracting and analyzing audio transcripts from videos, involving speech-to-text conversion, sentiment analysis of the audio, and aggregation of YouTube comments for sentiment evaluation.
- Utilized Django and Django REST Framework (DRF) for robust backend development, coupled with React JS and Chakra UI for creating a responsive and user-friendly front-end interface.
- As the sole project member, handled all phases of the project including integration of speech-to-text technology, text preprocessing, sentiment analysis using machine learning techniques, and data visualization of sentiment results.
- Employed tools such as NLTK for natural language processing tasks, enhancing the system's accuracy and efficiency in processing and analyzing textual data.

Translation of book PDF

DEVELOPER

Feb 2024 - Feb 2024

- Developed a web-based e-library platform for storing, translating, and reading books in PDF format. The platform features capabilities for PDF parsing, text translation through APIs, and a user-friendly interface for book management and reading.
- Employed a robust tech stack including Python, Django RestFramework for backend operations, React for frontend development, and JavaScript for interactive elements, alongside Gemini API for translation functionality.
- Focused on backend development, specifically on building the PDF parsing system, integrating translation APIs, and constructing a comprehensive database system for efficient storage and retrieval of digital books.
- Created as part of the Google Solution Challenge, demonstrating innovation and addressing real-world needs through technology.

DNS Filtering Service using Threat Intelligence feeds and AI/ML Techniques

DEVELOPER

Oct 2023 - Dec 2023

- Developed a DNS Filtering Service using Threat Intelligence feeds and AI/ML techniques, achieving high accuracy rates in threat identification.
- Implemented backend infrastructure including PCAP analysis, Zeek analysis, log parsing, and regex blocking mechanisms for network traffic analysis.
- Designed an intuitive frontend interface powered by Grafana to visualize network traffic and threat insights, seamlessly integrated with the Unbound DNS server.
- Employed a robust tech stack including Python, Django RestFramework for backend operations, React for frontend development, and JavaScript for interactive elements, alongside Grafana for visualization.
- Created for the Smart India Hackathon (SIH) 2023.

To Do and Password Manager

DEVELOPER

Oct 2023 - Nov 2023

- Implemented features for task management and password storage, allowing users to add, edit, and delete tasks, as well as securely store and manage passwords.
- Designed a responsive and intuitive user interface using HTML and CSS for seamless interaction across devices.
- Utilized Node.js packages such as Express.js for server-side routing and MongoDB for database storage, ensuring scalability and data persistence.

Hardware Forensic Suite

DEVELOPER

Apr 2023 - Aug 2023

- A Portable, Virtualized Intel NUC (Next Unit of Computing) device with the following features
 - Memory Forensics
 - Disk Forensics
 - Network Forensics
- Multi - operating system support (Windows, Linux)
- User-friendly Tool Launcher Interface to launch a comprehensive set of forensic tools on each OS platform for investigation
- Detailed PDF report for each investigative session
- Integrated with cloud storage to save data and findings of investigation
- Created for the Kavach 2023 Hackathon.

Idea Bank

DEVELOPER

Jan 2023 - Feb 2023

- Designed and developed the Idea Bank application to facilitate idea sharing and collaboration.
- Tech stack used: React for frontend development, PostgreSQL for the database, and Django Rest Framework (DRF) for backend operations.
- Implemented RESTful APIs using Django Rest Framework (DRF) for seamless communication between the frontend and backend components of the Idea Bank application.

Workout Tracker

DEVELOPER

Oct 2022 - Nov 2022

- Implemented computer vision algorithms using OpenCV to detect and recognize different workout exercises, including push-ups, pull-ups, squats, and walking.
- Utilized TensorFlow for machine learning-based pose estimation to accurately count repetitions and assess exercise form.
- Designed a user-friendly interface using Tkinter for easy navigation and interaction with the application.
- Integrated features for real-time feedback and visualizations to provide users with insights into their workout performance.

Work Experience

KHacks Karunya

Coimbatore

HEAD OF APP AND WEB DEVELOPMENT

2022 - present

- Mentored students for hackathons, guiding them to develop innovative solutions to real-world problems.
- Conducted workshops on Docker and Tableau, inspiring students to devise innovative solutions leveraging their newfound skills.
- Fostered a supportive community that encourages creativity and collaboration among students, empowering them to make a positive impact on society through technology.

Web Developer (Earn While You Learn)

Coimbatore

COMPUTER TECHNOLOGY CENTER

2023 - 2024

- Worked on karunya's Website in Drupal
- Contributed to Smart Karunya Project.

Internships

OctaNet

Virtual

WEB DEVELOPER INTERN

Jan 24 - Feb 24

- Created a To-Do application and Landing page.
- Utilized HTML, CSS, and JavaScript to develop these websites.

Karunya Institute of Technology and Sciences (Deemed University)

Coimbatore

SUMMER INTERNSHIP

May 23 - Jun 23

- Worked with Content Management Systems (CMS) such as Drupal and Wordpress.
- Integrated code-server with JupyterHub to provide users with the Visual Studio Code (VS Code) interface within JupyterHub.

Technook

Virtual

WEB DEVELOPER INTERN

Jan 23 - Feb 23

- Developed a basic chat application utilizing Web 3 technology, leveraging blockchain for secure and decentralized messaging.

- Developed Python functions to validate both IPv4 and IPv6 subnet addresses, ensuring proper formatting and adherence to subnet mask/prefix length constraints.
- Implemented checks for subnet mask/prefix length validity, verifying that they fall within the acceptable ranges (IPv4: 1-32, IPv6: 1-128).
- Validated network and broadcast addresses within the specified subnet ranges, ensuring accuracy and reliability in subnet calculations and networking tasks.

Certifications

Foundations of Cybersecurity

GOOGLE

Feb 2024

Foundations of User Experience (UX) Design

GOOGLE

Feb 2024

The Path to Insights: Data Models and Pipelines

GOOGLE

Feb 2024

Cloud Security Alliance

CISCO

Jun 2023

Extracurricular Activities

2023 - 2024 **Member**, National Service Scheme(NSS Technical Wing), Karunya University

Coimbatore

2022 - 2023 **Member**, Nature Club, Karunya Institute of Technology and Science

Coimbatore

2014 - 2024 **Member**, Nanjil Chess Club, Chess Association

Kanyakumari