OM PRAKASH BAIRWA

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
IDD	Electrical Engineering IIT (BHU), Varanasi	8.66	2025
RBSE (XII)	L B S Vidhyapeeth SSS	89.80	2019
RBSE (X)	New Inter Public SSS	90.00	2017

SKILLS

Languages: C, C++, JavaScript, Golang, Python
Technologies: MATLAB Simulink, React, Node.js, Socket.io, Gin (Golang), MYSQL, Mongo DB
Familiar With: Redis, Cron Jobs, Kafka, AWS(EC2), Elasticsearch
Areas Of Interest: Digital Electronics, Data Structures and Algorithms, Database Management Systems

INTERNSHIP/TRAINING

DHANDOLAT- SOFTWARE ENGINEER (BACKEND) INTERNSHIP
May - Jul 2022

Worked as a backend intern at DhanDolat-One stop platform to help people get started managing with their money

- Developed the **Bionic Reading** API interface for facilating the reading process.
- Enabled **Redis** data caching for accelerated content delivery. Achieved remarkable API performance improvement, **reducing latency** mean from 200ms to just 80ms (P99 reduction).
- Produce data to **Kafka** topic which will be later be consumed and **bulk** update like's data in **MySQL DB**.
- Utilize **Cron Jobs** for hourly tick data computation, followed by candlestick chart formatting.
- Set up the **GitHub actions** to automate ci/cd pipeline for auto-deploy the **Dockerized container**.

PROJECTS

Hyperloop-Based Transportation | Team Project
Dec 2022 - Present

B.Tech Project under Dr. R. K. Srivastava, Department of Electrical Engineering, IIT BHU

- Comprehensively explored and analyzed the intricate components of the Hyperloop system, delving into its simulation dynamics across diverse conditions.
- Currently modeling and optimizing the Linear Induction Motor (LIM) out of 1320 models, followed by LIM fabrication and POD design.
- Exposure: **MATLAB Simulink**, Working of Inverters, **Single-Sided Linear Induction Motor**

Attendo | Team Project
Aug - Sep 2022

- [Attendo](#) is an attendance system working on the principle of face - recognition. | [GitHub](#)
- Created the **Admin** feature that allow admins to manage their own teams including attendance, users, holidays attendance time and also able to see attendance of the users in their team.
- Implemented the face-recognition feature using **Face-Recognition API** and created its REST API using **Flask**.
- Created REST API for authentication, marking attendance, creating and getting teams(under an Admin) using **Node.js** & **Express** in backend & **MongoDB** for storing and fetching data.
- Designed an email service using **Microservices** architecture in **Golang**.

POSITION OF RESPONSIBILITY

Technical Head | Spardha'23
Aug - Nov 2022

Spardha is the annual Sports festival of IIT (BHU), Varanasi organised by the IIT gymkhana

- Managed the official website of Spardha'22 and Integrated the **Google Sheets** and backend user registrations.
- Developed a robust email **Microservice** using **SendGrid**, incorporating a Python script for efficiently sending **Bulk** system-generated emails.
- **Exposure**: Django, Google Cloud APIs, PostgreSQL, ReactJS

HONOURS AND ACHIEVEMENTS

- Selected to develop official website of the **Club of Sustainability & Innovation**, IIT (BHU) and earned a [certificate](#).
- Secured global **Rank 3069** Round-A in CodeJam'23 Farewell

EXTRA-CURRICULAR ACTIVITIES

- Participated in **Pre Event - Cyclothon** at Spardha'21 India's largest sports festival held at IIT(BHU).

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