Hari Om Bhardwaj

harry-urek.github.io
Linkdin

Email : hariombhardwaj038@gmail.com
Mobile : +91 7357387554
Github Leetcode Kaggle

EDUCATION

- **Siksha O Anusandhan University , ITER** Bhubaneshwar, Odisha, India
  Bachelor of Engineering in Computer Science; GPA: 3.1, CGPA(7.91/10.0) *Sep. 2021 – June. 2025*
- **Indian Institute Of Technology–Madras** Chennai, Tamil Nadu, India
  Bachelor of Science in Data Science; GPA: 3.0, CGPA(7.56/10.0) *Aug. 2023 – Dec. 2027*

EXPERIENCE

- **Gradio** Open Source
  Maintainer/ Contributor *Sep 2023 - Nov 2023*
  - **Gradio Client (Manitainer)**: Implemented streamlined workflows by consolidating overlapping project tickets into single action items, enhancing clarity across teams while improving overall efficiency benchmarks tracked monthly against prior periods.
  - **Issue (Contributor): assert Vulnerability**: Enhanced software robustness by resolving security issues through assert statement removal and error handling implementation. Improved code maintainability and readability by developing custom Error classes aligned with project requirements.

PROJECTS

- **ROOM - Messaging Backend** Github : ROOM
  FastAPI, PostgreSQL, Docker, Redis, SQLAlchemy, Protocol Buffers *Solo Dev*
  - **Security**: FastAPI messaging with E2E encryption, Auth0, and protobuf for security.
  - **Optimized messaging**: Real-time messaging via WebSockets, Redis PUB/SUB, and protobuf optimization.
  - **Async-performance**: Async architecture for concurrent processing and improved performance.
  - **Fast-deployable**: Docker-packaged for easy, scalable deployment.
- **Kratos - Microservice Session Management Library** Github : KRATOS
  Go, JWT, OAuth 2.0, gRPC, WebSockets *Solo Dev*
  - **Description**: Developed a comprehensive session authentication and management library designed for high-performance microservice architectures in Go. It validates, monitors and communicates user and its resources
  - **Authentication**: Used OAuth 2.0 authentication protocol for user verification and login. Cookie-based session validation mechanisms. Implemented robust JWT authentication for secure transactions between users and other services.
  - **Inter-Service-Communication**: Using gRPC protocol with WebSockets for real-time, low-latency transactions between services and management system. Kafka is used for messaging passing between services that are producing and consuming each other. Add a robust logging system.
  - **Future development** : Replace Go channels with Message Queues for producer and consumer transactions. Add monitoring through testing and analytics of services using Kratos. Containerize the whole application.
- **Yogi's EYE** Github : Y-EYE
  FastAPI, PostgreSQL, Docker, Pydantic, Roboflow, Alembic *Team Lead*
  - **EfficientNet Architecture:**: Implemented a custom training regimen on a Roboflow-processed dataset, allowing the ML model (EfficientNet-b1) to adapt to over 8 distinct Ayurvedic plant characteristics, improving accuracy for diverse species recognition.
  - **Containerized Deployment**: Hosted within a Docker container, it utilizes Alembic migration and PostgreSQL to manage and store recognized plant details efficiently.

PROGRAMMING SKILLS

Languages: GoLang, Python, JavaScript
Frameworks: FastAPI, Flask, Django , Express ,NextJS
Database: PostgreSQL, MySQL, Redis, MongoDB
Libraries: PyTorch, Pandas, SQLAlchemy, Pydantic
Tools: Git, Vim, GitHub Workflow, Docker, AWS