

# Ootala Deepak Chand

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## SUMMARY

Experienced Software Engineer skilled in designing scalable systems, developing efficient APIs, and building reliable ETL workflows. Focused on delivering end-to-end solutions that are data-driven, high-performing, and production-ready.

## EXPERIENCE

### GREY SCIENTIFIC LABS | BACKEND DEVELOPER

Feb 2025 – Present | Bengaluru, IND

- Building and maintaining scalable **REST APIs** and real-time features using **WebSockets**.
- Optimizing **SQL queries** and improving **API performance** through **asynchronous workflows** using **Celery**, **RabbitMQ**, and **Redis**.
- Developing **analytical dashboards** from multiple data nodes and **message queue servers**.
- Containerizing applications with **Docker** and deploying on **AWS EC2 Ubuntu VMs** with **Nginx load balancing**.
- Collaborating with AI teams to integrate **PyTorch** and **TensorFlow inference microservices**.

### GREY SCIENTIFIC LABS | BACKEND DEVELOPER INTERN

Sep 2024 – Feb 2025 | Remote

- Contributed to a **digital pathology web platform** by developing **RESTful APIs** and **WebSocket-based real-time modules**.
- Ensured secure data handling, efficient integrations, and scalable backend architecture for healthcare workflows.

### MNNLR | PYTHON SOFTWARE DEVELOPER INTERN

Jul 2024 – Aug 2024 | Remote

- Developed a **Python-based desktop application** using **Kivy** with a **Flask backend** for a custom **YOLO object detection model**.
- Optimized model inference and improved performance for accurate **chessboard recognition and analysis**.

## PROJECTS

### SLAM BOOK | DJANGO, BOOTSTRAP, HTML, JAVASCRIPT

- Built a full-stack web app using Django with secure user authentication and responsive UI design.
- Focused on form management, clean architecture, and version control with Git – [Link](#).

### BIBLE APP | FLASK, HTML, CSS, JAVASCRIPT, SQLITE3

- Built a Flask-based Bible web app with dynamic scripture navigation and SQLite integration – [Code](#).

### MEMORA | FASTAPI, MCP, NEO4J

- Memora is a lightweight MCP server built with FastAPI and Neo4j that provides LLMs with persistent, graph-based memory – [Code](#).

## EDUCATION

### PRAGATI ENGINEERING COLLEGE

BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING

Dec 2021 | May 2024

7.69

## SKILLS

### PROGRAMMING

• C • Python • Java

### BACKEND

• Django • Flask  
• NodeJS • FastAPI

### FRONTEND

• HTML • CSS  
• JavaScript • ReactJS

### TECHNOLOGIES

• SQL • Docker • Git • Linux

## COURSEWORK

- Data Structures and Algorithms
- Object Oriented Programming
- SDLC
- DBMS

## CERTIFICATIONS

- Web Development Fundamentals - IBM Skillsbuild- [Link](#)
- Azure Fundamentals - Microsoft Corporation- [Link](#)

## EXTRACURRICULARS

- Active member of the **AR/VR Club**, contributing to immersive tech projects and events.
- Participated in **Technical Strides**, showcasing technical and creative problem-solving skills.
- Attended an **IoT Workshop**, gaining hands-on experience with connected systems.
- Engaged in various campus tech initiatives promoting innovation and collaboration.

## LINKS

• [Github](#) • [LinkedIn](#) • [Portfolio](#)