Joshua Jacob Abraham
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Education

National Institute Of Technology, Calicut	Kozhikode, Kerala
B.Tech in Computer Science | CGPA : 7.93	August 2023 - September 2027
St Antonys Public School (CBSE)	Kottayam, Kerala
Matriculation - 98.2% | Intermediate - 85%	July 2020 - March 2022

Experience

Web Developer Intern at NITCAMP July 2024 - January 2025

- Collaborated in developing a full-stack mentorship matching platform using React, Express.js, and PostgreSQL, following Git-based version control under mentor guidance.
- Built user interfaces for Admin, Mentor, and Mentee roles with React Router-based navigation and Figma-based UI designs.
- Integrated RESTful APIs using Axios for dynamic data rendering and form submissions with input validation and global error handling.

Projects

Inventra, Personal Project November 2024 - February 2025

- Developed a FastAPI backend to manage stock additions, sales, returns, and shelf-wise tracking; enhanced inventory visibility with PDF/Excel reporting.
- Structured and optimized MySQL schema to handle stock queries more efficiently and implemented strict input validation leveraging Pydantic models.
- Streamlined deployment by embedding a portable MySQL server in the Electron installer and built clean APIs for reliable backend and frontend integration.
- Applied user-centered design principles by gathering feedback from the end-user, iteratively refining features.

Dev-Enviorn, Hackathon January 2025

- Built a FastAPI backend to securely execute user code in Docker containers, dynamically selecting images based on file type.
- Designed structured API endpoints with Pydantic validation, managed temporary file creation and cleanup, and integrated CORS middleware for frontend-backend interaction.
- Developed a React-based frontend with an intuitive UI to submit code, receive execution results, and track processing status.

URL Shortener December 2024

- Built a FastAPI backend with structured endpoints for URL shortening, analytics, and automatic redirection every 10th request to an external ad page.
- Designed and optimized a MySQL schema hosted on Aiven; implemented rate-limiting (20 requests/day per URL) and analytics for tracking popular links.
- Deployed on Render free tier, with seamless cloud-hosted MySQL integration, ensuring smooth backend operation and reliable data access.

Skills

- Python, C++
- Git, Docker, MySQL

Coursework

- Compiler Design
- Computer Networks
- Operating Systems
- Database Management Systems

Links

- Github/joshua-jacob-abraham
- Linkedin/joshua-jacob-abraham
- Leetcode/abraham-

Leadership and Awards

CodeInit Hackathon	NIT Calicut
Led team to complete and submit the project through effective delegation and collaboration.	January 2025
GDSC Flutter Development Workshop	NIT Calicut
Attained 3rd prize with judging criteria being best UI and creativity in features.	January 2024