

AKHAND PATEL

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Experience

DRYICE LUCY, HCLTech

July 2023 - Present

Technical Lead

Bengaluru, India

- Designed and implemented a proof-of-concept for a new Role-Based Access Control (RBAC) system.
- Optimized the POC for a substantial reduction in database load and a noteworthy increase in system speed.
- Gained hands-on experience with front-end development of responsive user-interfaces using Vue.js.

Centre of Science and Technology

July 2019 - August 2019

Technology Intern

Uttar Pradesh, India

- Revamped a productivity add-on for internal systems to accelerate the review process by 20%.
- Reviewed 15+ projects and interviewed 30+ applicants to be shortlisted for grants.

Projects

REDIS CLONE | Go

- Developed a concurrent Redis server in Go language with basic Redis commands support.
- Implemented synchronization mechanisms using locks to prevent race conditions when accessing data storage.
- Supported expiration time for keys, enabling time-based data expiration and automatic key removal.

URL Shortener API | Go

- Developed url-shortening api using nano-ids having daily and burst limiter setup on creation and resolution
- Implemented Session-based user registration and login; registered users can create custom shortcodes
- Incorporated features for URL expansion, analytics tracking, and user-specific URL management.

MovieDB API | Go

- Built a rate-limited Go-based movie data API with authentication, authorization, and PostgreSQL integration.
- Implemented permission-based access control, user registration, authentication, and email-based account activation.

IMAGE STORAGE SERVICE | React

- Programmed highly scalable and low cost solution to store user photos in the cloud.
- Implemented Authorization and Albums Feature to store images in a systemized manner using Firebase

PERSONAL CLOUD STORAGE | React

- Formalized Directory-Based Storage and Authorisation using G-Auth to facilitate faster login
- Engineered using ReactJS, BootStrap on frontend and Firebase as backend.

Education

M.Tech in Computer Science and Engineering

Aug 2021 - May 2023

Indian Institute of Technology Bhubaneswar CGPA:8.07/10.00

Odisha, India

Coursework: Cloud Computing. Network Systems and Security. Advanced Algorithms. Software Engineering. Software Testing and Verification. Digital Forensics.

B.Tech in Computer Engineering

September 2016 - August 2020

Babasaheb Bhimrao Ambedkar University, Lucknow CGPA:7.2/10.00

Uttar Pradesh, India

Coursework: Operating Systems. Compilers. Computer Networks. Algorithms. Theory of Computation. Database Management Systems, Web Engineering

Technical Skills

Certifications/Training: Summer training in Android Development

Languages: C, C++, JavaScript, NodeJS, HTML, CSS, Golang

Developer Tools: Visual Studio Code, Google Colaboratory

Technologies/Frameworks: Git VCS, Linux, GitHub, ReactJS, ExpressJS, Firebase, MongoDB, Solidity

Achievements / Extracurricular

- Student Placement Coordinator M.Tech C.S.E. | IIT Bhubaneshwar 2022 - 2023
- Solved more than 250 problems on various platforms combined like LeetCode, GFG and others. April 2022
- Qualified GATE twice with recent rank 1089 with a percentile greater than 98%. April 2021