Krithish R

Bangalore, **India**-560094

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Work Experience

Software Intern   Aug 2024 – Sep 2024

Zeta Coding Innovative Solutions   *Bangalore, India*

- Developed **Python**-based data analysis pipelines that improved processing **efficiency by 30%** and reduced manual **scripting efforts by 25%.**
- Optimized **MySQL** indexing and SQL queries, resulting in 40% faster database query execution for large datasets.
- Implemented modular backend components that enabled **20% faster feature integration** and improved reusability across modules.
- Collaborated with developers using **Agile + Git/GitHub** increasing team deployment frequency by 15%.
- Automated **ETL workflows** using Python, reducing data cleaning time by 35–45%.

Data Operations Assistant   Jan 2025 – Jun 2025

HDFC Bank   *Bangalore, India*

- Automated bank reporting processes using **Excel** macros, cutting manual reporting time by 50%.
- Identified data inconsistencies and implemented validation checks improving **data accuracy by 25%.**
- Streamlined monthly reports saving **8–10 working hours per month**.
- Extracted and transformed datasets that contributed to **15% faster turnaround time** for analysis requests.
- Coordinated with internal teams ensuring **100% compliance** with reporting standards.

Projects

Automated Deployment of a Containerized Web Application

- Containerized **Node.js** app using **Docker** improving deployment consistency across **3 different environments**.
- Built and deployed workloads on **Kubernetes** using **Deployments**, **Services**, and **Ingress** for scalable orchestration.
- Created a **CI/CD** pipeline using **GitHub** Actions to automate build, test and image deployment processes to **Docker Hub**.
- Implemented rolling deployment strategies in Kubernetes to ensure zero-downtime application updates.

Portfolio Website (link: https://httpskrithishportfolio.netlify.app/?#home**)**

- Developed and deployed a fully responsive personal portfolio using **HTML**, **CSS**, and **JavaScript** with reusable **UI** components.
- Integrated interactive animations, smooth navigation, and dynamic **UI elements** to enhance user experience.
- Deployed via **Netlify** enabling 99% uptime and **continuous deployment.**

Conflict Avoidance and Landslide Alert System for Vehicles

- Designed an **IoT**-based road safety solution using **microcontrollers** and sensor modules for real-time hazard detection.
- Implemented **IR sensors**, **ADXL** accelerometers, and rain detection modules to collect and process environmental data.
- Developed embedded logic in **Embedded C/Python** to trigger alert notifications for high-risk road conditions.
- Automated real-time alerts reducing manual risk assessment **effort by 70%.**
- Integrated **hardware + software modules** enabling continuous 24/7 monitoring.

Education

East West College of Engineering, Bengaluru

Bachelor of Engineering – Computer Science and Engineering   Jun 2020 – May 2024

Technical Skills

Languages: Java, JavaScript, C, HTML, CSS, Tailwind, MongoDB, SQL

Technologies/Frameworks: React.js, Redux, Node.js, Express.js, Spring Boot

Developer Tools: Git, GitHub, VS code, Eclipse, Intellij, Postman, Netlify

Core Competencies: Data Structures and Algorithms, Object Oriented Programming, REST API Integration,

Certifications

- Full Stack Web Development (TAP Academy)
- java Programming, NodeJS, MySQL
- AWS Cloud Technical Essentials