



Prajwal P

Internships

- Nov 2022 - Dec 2022 **Software Engineering Intern, ClusterDev, Kerala, India**
- Contributed to the development and implementation of a Transliteration tool for converting English words to Kannada, utilizing a lexical framework and performing integration and migration tasks.

Projects

- Jan 2023 - Present **A Systematic Approach to Design Real-Time Tracking of Metropolitan Bus Services**
- Designed and developed a robust backend platform utilizing Kafka consumers and producers for real-time GPS data processing from buses.
 - Implemented a PostgreSQL database for efficient storage and management of the processed GPS data.
 - Utilized Google Cloud Map Services for calculating metrics such as estimated time of arrival (ETA), distance, and route planning.
 - Designed the system to be scalable, flexible, and reliable, capable of handling large data volumes and adapting to changing requirements.
- Jan 2022 - Present **Automated Accounts System for IEEE-RVCE Student Chapter**
- Designed and developed a robust backend platform along with an SQL-based database.
 - Worked on creating and managing RESTful API routes.
 - Implemented a database management system to efficiently store and manage related data.
 - Managed and automated deployments using Docker.
- March 2023 - Present **Hybrid Service Mesh Architecture: Integrating Containers and Serverless Apps**
- Designed an architecture that combines container-based services and serverless apps.
 - Conducting practical tests on various workloads to analyze the bottle necks through monitoring.
 - Analyzing the latency, error, and efficient resource utilization through monitoring and visualization.
 - Combining serverless functions and containerized microservices for better output and improved monitoring, metrics, tracing.
- Jul 2021 - Jun 2022 **Dhwani**
- Collaborated with a team from IISC on a project involving the display of interactive data retrieved by the application. The application gathered real-time response time data from deaf children based on exercises.
 - Contributed to the development of innovative technology solutions aimed at supporting the needs of deaf children and their therapists.

Technical Skills

Languages	Java, Typescript, JavaScript, Python, C, CSS, HTML
DBMS	MySQL, MongoDB, Redis
Technologies	Docker, Vagrant, Git, AWS, Unix-OS, ARM, Nginx, Vim
Frameworks	Flask, Django, Express, NestJs, ReactJs, NextJs, Spring Boot
General	Operating Systems, Computer Networks, Distributed Systems, Web Development

Bengaluru – India

Roles and Responsibilities

- Apr 2021 - Jan 2023 **IEEE, Computer Society Vice Chair & Web Master**
- Served as an office bearer in the mentioned posts within the student branch.
 - Organized more than 8 technical-related events.
 - Led a team of 7 to conduct **Hack4Soc** Hackathon.
 - Led a team of 3 in developing two internal software from scratch, resulting in widely used solutions within the organization.
 - Utilized Agile methodology to manage the software development lifecycle.
 - Mentored team members and provided training on various technologies and tools to increase their proficiency in software development and collaboration.

Education

Dec 2020 - Present **B.E. - Computer Science, R. V. College of Engineering, Bengaluru**

Grad. Aug 2020 **Grade 12, Base Educational Services, Mysuru**

Academic and Extracurricular Achievements

- Felicitated with the Shanta Radha Krishna Award (2022).
- Won the *IOT Hackathon* conducted by BIT among 30 teams (2022).
- Won the *Bot Builder Hackathon* conducted by IEEE all over Karnataka (2021).
- Runner-up in the *7to7 Hackathon* conducted by Toyota (2021).
- Runner-up in the *Conio.h* conducted by ASCE (2021).

Languages

- English (Fluent)
- Kannada (Fluent)

Hobbies & Interests

- Cycling
- Trekking
- Running
- Literature
- Theatre

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