Koushik Reddy Gajjala

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EDUCATION

California State University Chico - CA, *Master's in Computer Science*, GPA - **3.79 / 4.0**   **May 2024**

SRM Institute of Science and Technology - IN, *Bachelor's in Computer Science and Engineering*, GPA - **9.7 / 10**   **May 2022**

EXPERIENCE

NearXture   **Oct 2020 – Mar 2021**
Web Development Intern   Bengaluru, IN
- Completed web development internship, demonstrating proficiency in **HTML**, **CSS**, **JavaScript**, **Figma** and **React**.
- Assisted in developing an **e-commerce** website using **React** for the frontend and **Node.js** for the backend, contributing to a team that **optimized** website **loading time** by **20%.**

PROJECTS

FindIt (Python, FastAPI, OpenAI, chromadb, Large Language Model**)**   **Jun 2024 - Present**
Repo: https://github.com/Gajjela-Koushik-Reddy/findit
- Developed an addon **AI bot** for a learning management system that **assists students** in **finding** resources, **summarizing** content, **creating quiz questions**, and **making action plans** for exam preparation using **LLM**.

MicroServices (Java, Spring Boot, PostgreSQL, Postman, Kafka, Docker, Kubernetes, Heml, OAuth2**)**   **May 2024 - Jun 2024**
Repo: https://github.com/Gajjela-Koushik-Reddy/microservices
- Built **scalable** backend for banking **REST APIs** using microservices, **MVC**, and **event-driven architecture**, and implemented monitoring services with **Grafana**, **Loki**, and **Promtail**. The solution was **deployed** in a **Google Cloud** Kubernetes cluster.

REST API (Java, Spring Boot, PostgreSQL, Postman**)**   **May 21, 2024**
Repo: https://github.com/Gajjela-Koushik-Reddy/runnerz
- Built REST API that does **CRUD** operations with **PostgreSQL** database using **Model View Controller** (MVC) architecture.

SnapNFix (Figma, Dart, Flutter and Firebase**)**   **Sept 2023 – Dec 2023**
Repo: https://github.com/Gajjela-Koushik-Reddy/snapNfix
- SnapNFix is an **Android Application** used to streamline the **tracking** and **management** of **structural defects** in diverse settings such as apartments, construction sites, farms, and industrial areas.

Open-Source Pantry Manager (React, TypeScript, ExpressJS, nodeJS, Docker and PostgreSQL)   **Feb 2023 – May 2023**
Repo: https://github.com/ChicoState/PantryNode
- Collaborated with a **team of 2**, to design and **implement** an **expiry page view** and a user-friendly interface that **increased** food **tracking** efficiency by **20%** and **30% reduction** in waste.

Advanced Driver Assistance System (OpenCV, C++)   **Feb 2023 – May 2023**
- **Led a team of 5**, implementing features such as **lane detection**, **traffic light detection**, **pedestrian detection**, **vehicle detection** with **distance estimation**, and **stop sign detection** by training **HOG SVM** Machine Learning Model.
- Employed **frame subsampling** along with **P-threads** to **enhance performance**, **increasing** the **frame rate** from **4fps** to **24-27fps**.

SKILLS

- **Presentation Skills:** MS Powerpoint, Word, Excel
- **Front End:** HTML, CSS, JQuery , Figma, Bootstrap, ReactJS, Angular, Flutter
- **Back End and Database:** MySQL, PostgreSQL, MongoDB, Firebase, NodeJS, ExpressJS
- **DevOps:** Git, Gitlab, Docker, Kubernetes, Maven
- **Programming Languages:** C, C++, Python, Java, JavaScript, TypeScript, Dart

INVOLVEMENT

Logic Play Student Club - SRM Institute of Science and Technology   **May 2019 - Aug 2021**
AI/ML Team Member   Chennai, IN