

Saicharan Kandukuri

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Education

Parul university at Gujarat, Apr 2024. Emphasis on Artificial Intelligence.

B-TECH in Computer Science Engineering

Experience

Backend Developer - DigiFrills IT Solutions Remote, 10/24

- Developed a CRM project project backend
- Used MongoDB as backend database
- Implemented express backend with Authentication and data storage
- Worked on DigitalOcean to deploy and scale backend

AI/ML Internship - Glue Labs Private Limited. Remote, 05/23 - 09/23,

- Designed and implemented a tool for generating slides from YouTube videos
- Utilized various open-source Large Language Models and the OpenAI Chat GPT API for content generation
- Integrated features for creating diagrams related to the given topic/keyword using GPT
- Employed multiple strategies for content creation, including Python, BASH, Gradio, and Hugging Face technologies
- Demonstrated proficiency in utilizing GPT for creating informative and visually appealing slide content
- Applied skills in natural language processing and automation to enhance the tool's functionality
- Collaborated with different technologies and APIs to ensure a comprehensive and effective solution

Open Source Internship - Glue Labs Private Limited. Remote, 02/23 - 05/23

- Created a web-based note-taking application featuring a built-in Markdown editor
- Leveraged client-side Git WebAssembly (git WASM) to facilitate seamless interactions with GitHub as the backend storage solution
- Eliminated the necessity for GitHub APIs by enabling direct client-to-GitHub interactions
- Designed and implemented a proxy server to address Cross-Origin Resource Sharing (CORS) challenges when interfacing with GitHub
- Implemented the application using technologies such as Svelte for the frontend, JavaScript for scripting, Docker for containerization, Go for backend development, and WebAssembly for efficient client-side processing

Projects

PU 3D MAP [Svelte, ThreeJS, Node]

- Implemented a project to place 3D models on top of Google Maps
- Used Google Maps API to display vector MAP
- Used Three JS to load, display, position 3D models on Google Maps

ubuntu-on-android [Bash/Shell scripting]

- created a project to build and publish per-installed Linux tarballs to android
- Solved problem to build, automate, publish and installing by using different strategies and languages
- created and maintaining open source organization with multiple projects
- achieved ~900 + starts in GitHub

udroid-download [Python, Bash]

- Created a CI/CD pipe line to build an publish latest ubuntu distros
- Implemented on strategies to GitHub Actions to publish linux tarballs for thousands of users
- Simplified building Linux on a small factor

puwifi [Python, Bash]

- Developed puwifi: a Python tool simulating Parul University's WiFi authentication
- Implemented persistent connectivity with a loop mechanism (-k or --keep-alive)
- Supported multiple OS (Linux, Windows, MacOS, Android via Termux) and Python 3.6+
- Encouraged responsible use, released under MIT License

Notes WASM Go [Svelte, Go, WASM, Node, Git]

- Developed an experimental project, "Notes WASM GO," as part of an internship
- Explored the capabilities of WebAssembly (WASM) with Go for building a note-taking app integrated with Git
- Implemented a three-terminal setup for local execution involving building the WASM file, running the frontend server, and launching the backend proxy server to handle CORS issues
- Integrated GitHub authentication and encryption logic in WASM to securely store notes in a GitHub repository

Skills

Languages: Python, Bash, Javascript, TypeScript, Go, Rust, C, C++, lua | JSON, Markdown, yaml, HTML, CSS

Frameworks/lib: Svelte, NextJS, React, Astro, node, Bun, ThreeJs, google Maps | Torch, HuggingFace Transformers

Tools: VSCode, Neovim, docker, npm & Yarn & Bun, GitHub, GitLab, zsh, vercel, Figma, Google

Hobbies: Music, Quick Grasp, FOSS contributions, Distro Hopping

Leadership

Linux Lead - Google Developer Students Club Parul University 2022 - 2023

- Joined Google Developer Students Club as Linux Lead
- Helped community to Linux
- created and managed GDSC PU GitHub organization

Git & GitHub Tutor

- Conducted events to introduce Git & GitHub to students & professors
- Attended as a tutor to three events supported by university