

Vedant Kulkarni

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github.com/gamemaker1

I am an undergraduate computer science student at IIIT Hyderabad. I have contributed 400+ issues/PRs across 30+ repositories over the past seven years - starting with my first PR for Google Code-In when in 2018, to most recently working with MIT Media Lab's Large Population Models (LPM) team on their AgentTorch project for differentiable agent based learning since April 2024.

I'm the co-maintainer for several popular node.js libraries such as express-rate-limit and express-slow-down used to shield servers from DDOS attacks, and contributor to vercel/serve, Refined Github, FPM, Beckn, Sunbird Registries and Credentials.

Experience

Creator, Mess Portal at IIIT Hyderabad

02/2025 - Present

Mess Management System design, implementation, deployment, maintenance

Tech go, postgres, rust, opencv, react, shadcn, tailwind, metabase, umami

Work gitlab.iiit.ac.in/messcom

- designed the system transparently from ground-up
- made conscious design decisions based on challenges in old system
- implemented it with my batchmate Aarnav Pai in 20 days, with 10 days for testing
- ensured a fast, secure and streamlined experience for students and staff
- open-sourced at the project for the community to contribute

Maintainer, Agent Torch an MIT Media Lab project

04/2024 - Present

Agent Based Modelling with LLMs research, collaboration

Tech python, pytorch, llms, langchain, open street maps, leaflet

Work github.com/agenttorch

- working on simulating peer to peer solar networks on a city scale
- integrated with decentralized protocols like becn
- enhanced programmatic api and config format
- created documentation and tutorials for the project

Maintainer, Express Rate Limit

11/2021 - Present

Popular Node Package rewrite, api design, maintenance

Tech typescript, express, databases

Work github.com/express-rate-limit

- rewrote the library in typescript
- improved and promisified the store API
- auto-published releases
- improved the unit and integration test suites
- added comprehensive documentation and tutorials

Education

B.Tech in CSE from IIIT Hyderabad

2024-28

Standard 1-10 (ICSE) at Wisdom World School, Pune

2012-22

Member Of

Student Parliament, IIITH 2024

- Elected as batch representative in the first month of college.
- Serving as the Academics Secretary, and on the Mess, Hostel, Health Committee, Tech and Internal Affairs Committees.

OSDG, IIIT Hyderabad 2025

- Joined the tech team of the Open Source Developers Group, planning to contribute to projects and host events.
- Helped with the Introduction to Docker event, hosted by Aarnav Pai.

Open Source Projects

Office Text Extractor

A pure JS library to extract text from office files that parses based on mime types.

Dabbu Knowledge Platform

A platform that allows you to access any of your personal information (Gmail, Google Drive, OneDrive, your hard drive, etc.) as files, or as topics.

Verifiable Credentials and Presentation

A specification and reference implementation for a plugin-based service for rendering, storing and querying verifiable credentials and presentations.

HTTP Negotiator

A HTTP content negotiator written in V.

Subtitle Translator

A python script that uses Deeplator to translate subtitles in .srt files to and from six different languages. This project was one of my first open source projects, and my submission to Google Code-In in 2018.

Talks

2024 Pune

Sunbird DPG Tech Fusion Conference: My Journey Into Open Source

2024 Hyderabad

FOSS United Meetup: Agent Torch

Contributions

Sunbird RC

Documented the process of creating and working with registries, and created the registry-cli package to spin up a registry quickly and easily. Submitted various RFCs to improve the project.

Refined GitHub

Contributed to 8 popular features: useful-not-found-page, quick-comment-edit, forked-to, linkify-code, restore-file, among others.

Serve

Refactored the library, added tests, and transitioned to ESM + Typescript.

FPM

Restructured the documentation, rewrote parts of the installation page, added a getting started page, tutorials and examples, as well as a CLI flags reference page.