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, maintenence

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 beckn
- 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   IIIT Hyderabad
2024-28

Standard 1-10 (ICSE)   Wisdom World School, Pune
2012-22

Member Of

Student Parliament   2024
- Elected as batch representative in the first month of college.
- Serving as the Academics Secretary, and on the Mess, Hostel, Health, 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.

Talks

2024 Pune
Sunbird DPG Tech Fusion Conference: My Journey Into Open Source

2024 Hyderabad
FOSS United Meetup: Agent Torch

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.

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.