

Yash Kumar Verma

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EDUCATION

Vellore Institute of Technology, Vellore
Bachelor of Technology in Computer Science and Engineering

(Expected Graduation: June 2023)
9.41 CGPA

EXPERIENCES

Software Development Intern (backend): [fampay](#) Sept. 2021 – Present

- Independently implemented celery task runner in django admin panel, enhanced UPI services.
- Writing APIs to support new onboarding flows to boost user retention and experience.

Google Summer of Code Student, Maintainer: *caMicroscope* May 2021 – Sept. 2021

- Implemented RBAC mechanism for access and rights distribution in the nodeJS backend.
- Work on performance improvements by integrating a cache layer for resource intensive tasks.
- Authored NPM packages to cache JS & TS functions in single line, supports multiple cache stores.

Technical Director: *ACM-VIT, VITspot* Mar 2021 – Present

- Leading the official ACM chapter, working on projects and fostering the community.
- Writing services for react native app (35k+ installs), automating flows and moderation at VITspot

Project Admin, Mentor: *GirlScript Summer of Code* 2021

- Mentoring contributions for the project of organization: UniAuth
- Coordinating all operations in the program pertaining to UniAuth

Google Season of Docs, Maintainer, Mentor: *CircuitVerse* Aug 2020 – Nov 2020

- Mentoring and assisting qualified candidates for CircuitVerse (GSoC org) for CircuitVerse docs.

MLH Fellow – Major League Hacking (Internship) June 2020 – Aug 2020

- Worked on React Native **with Facebook team** to disintegrate and migrate RNTester from monorepo
- Designed, Prototyped, Tested and Documented the new RNTester Application.

Project Maintainer, Contributor – CircuitVerse Apr 2020 - Present

- Maintained and Monitored significant contributions on two CircuitVerse projects.
- Added two new components to calculate complements in circuit simulator; fixed UI related issues.

Project Maintainer – FOSSASIA Nov 2018 - Present

- Implemented a core game functionality, inventory mechanism for the player to collect and use in-game objects; Coordinated open source contributions.

PROJECTS (more available on [Github](#))

- UniAuth:** A full feature private, customizable identity manager as an OAuth, server written from scratch with client libraries in multiple languages for effortless integration; to provide industry level authorization flow. Accepted into GirlScript Summer of Code 2021.
- Hentry:** a microservice based (*golang, NodeJS, ReactJS, Redis*) written to implement a real-time system to monitor participants in online events to ensure genuine submissions, with admin panel for organizers to monitor project progress in real-time. Winner in Redis Industry hackathon.

- **Reverse Coding:** A robust system comprising of microservices written in nest.js and Golang to execute code, judge submissions and award points. Responsive UI written in React.js, TailwindCSS; bundled with server less functions to eliminate redundant code for interacting with Google Cloud and Firebase.
- **Executely:** A web application written in MERN stack to read, parse, and to identify the language, and to execute handwritten code snippets with full support for custom inputs and image cropping.
- **Blazing:** A PHP framework following MVC guidelines, with minimal footprint and built in templating engine, cache support, file management and database modules.
- **School Sahayak:** A full-stack project, developed during the high school days, built entirely on Blazing Framework (mentioned above) to manage academic records, fees, transport details, communication management and customized report generation.
- **Attendance Application:** A full-stack project to manage attendance during the events, intended to be used by the organizations while organizing events; with provisions for multiple-sessions and QR scanning.
- **Octave:** An application in MERN stack to play music based on votes by audience in hackathons, relies on Spotify API for song indexes, automated playback and real-time voting for decisions.
- **Go do Sql:** A CLI written in Golang to generate tables and seed random data in multiple implementations like MySQL, Oracle SQL etc, with support of auto-complete within the shell.
- Published **NPM** Packages to generate index pages, generate .env files, cloud deployment using surge.sh
- **Shatabdi.js:** An experimental Node.js web framework written from scratch which **beats express.js** in benchmarks like latency and response time.

AWARDS & RECOGNITIONS

- Redis Industry Hackathon (open to professionals) : **Silver Prize** even as **Individual Submission**
- Coding Blocks Bountiful Open Source Summer 2020: **Winner** (August 2020)
- **MLH** Fellowship Orientation Hackathon: **Winner** (June 2020)
- ACM-VIT Learn to Augment Hackathon: **Winner** (September 2019)
- Merit Certificate by VIT University for securing second rank in the academics under Computer Science Department for the academic year 2019-20.
- **Google** Code-In 2017-18 – Finalist **Winner**