

Varun Agarwal

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EDUCATION

- **KIET Group of Institutions** **Aug'21 - May'25**
Bachelor of Technology in Computer Science and Engineering **CGPA: 8.5**
- **St.Paul's School** **March 2021**
Intermediate **GPA: 9.5**

SKILLS

- **Languages:** C, C++, Python, JavaScript, TypeScript, HTML, CSS
- **Libraries/Frameworks:** Tailwind, React, Redux, Node, Express, Mongo, Django, Flask, Next, Postgress, MySQL
- **Tools:** Docker, AWS

WORK EXPERIENCE

- **DAO Studio Backend and SRE Intern** **Oct'23 - Current**
 - * **Implemented RESTFull APIs using Django & Flask** to facilitate seamless communication between various microservices.
 - * **Dockerized multiple microservices** to create a containerized environment, enhancing deployment efficiency.
 - * **Implemented CI/CD pipelines** for automated testing, building, and deployment, reducing manual intervention and accelerating the release cycle.
 - * Configured and maintained **monitoring and logging solutions for docker containers, using Grafana**, to track system performance, troubleshoot issues, and ensure optimal resource utilization.
 - * Utilized **AWS services such as EC2, S3, and RDS** to create a resilient and scalable infrastructure for microservices.

OPEN SOURCE CONTRIBUTIONS

- **Samagra UCI APIs #188 #191 #194**
 - * **Created specs for controllers and services** using TypeScript and the Jest framework of Nest, providing a **test coverage of 79%**.
- **Palisadose Talawa Admin #1185**
 - * **Implemented a Github Action and a python script** which will check all the translational files in the PR.

PROJECTS

- **IWOC 2.0** **Github**
 - * Developed a website using **Node.js and Express for the backend, integrated with MongoDB, facilitating the registration of over 1500 students nationwide.**
 - * Implemented **GitAuth OAuth Login using passportJS** on the website to authenticate participants, effectively reducing instances of fake registrations.
 - * Created a Node.js script to systematically track and log all merged pull requests in participation projects using **Octokit to query Github REST APIs.**
 - * **Technologies: Node, Express, EJS, PassportJS, Octokit, Github OAuth, MongoDB, AWS.**
- **URL Shortner** **Github**
 - * Designed and developed a **URL shortener utilizing Django REST APIs and PostgreSQL** as backend. Also, **implemented Redis as a caching database** to optimize performance.
 - * **Utilized Redux to manage user context**, enabling seamless login experiences and personalized URL generation for individual users.
 - * **Technologies: Django, React, Redux, PostgreSQL, Redis, AWS(EC2).**
- **Visual Cipher** **Github**
 - * Developed a website using **Node.js and Express for the backend, integrated with MongoDB.**
 - * Incorporated **cryptoJS AES for secure encryption and decryption** of images.
 - * **Technologies: Node, Express, React, Redux cryptoJS, MongoDB, Unsplash-API.**
- **Innogeeks Website Backend** **Github**
 - * Developed the backend for innogeeks website using **Django and PostgreSQL.**
 - * It is a dynamic event website maker, enabling authorized students to create and manage events, including student registration functionalities, ensuring secure access and streamlined event management.
 - * **Technologies: Django, Jinja, PostgreSQL, AWS.**

PARTICIPATION

- **Innogeeks**
 - * Core Team Member of Innogeeks technical Society.
 - * Mentored 30+ students under web domain.