Vineel Sai

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GitHub
LinkedIn
Website

WORK EXPERIENCE

Elucidata — *Software Engineer*

Jan 2023 - Present — Bangalore, India

Software Engineer – July 2023 - Present — Bangalore, India

Software Engineer Intern – Jan 2023 - June 2023 — Bangalore, India

- Member of Platform Team.
- Managing **AWS** Infra, and ensuring smooth Developer Experience across all teams.
- Managing User/Auth APIs, ensuring seamless integration and functionality for end-users.
- Develop and maintain workspace APIs, facilitating efficient file management for storing large amounts of genomic data.
- Design and implement metrics services to charge end-users based on their compute usage.
- Develop and manage notification APIs/webhooks for real-time updates and user communications.
- Develop and maintain **OpenAPI** and **JsonAPI-compliant APIs** in **Python**.
- Writing and maintaining **CI/CD** using **CircleCI** and **GitHub Actions** pipelines and **Infrastructure as Code** with **Terraform**.

COMETLABS — *Backend Development Intern*

Mar 2022 - Dec 2022— Hyderabad, India

- Developing and maintaining JavaScript APIs for the COMETLABS website.
- Managing cloud infrastructure and containerized deployment to **AWS**.
- Worked on Migrating monolith node.js backend to individually deployable microservices.
- Setting up a multistage environment for robust testing before deploying changes to production.
- Explored the prospects of using Kubernetes for orchestrating backend APIs/workflows.
- Developed a distributed and cloud-agnostic **remote code execution and testing system** for different frontend and backend frameworks like react, vue, angular, express, nodejs, etc.
- Worked on making scalable and platform-agnostic backend applications that can be deployed on any cloud environment in under 30 minutes.

EDUCATION

Indian Institute of Information Technology Kalyani — *Bachelor of Technology, Computer Science and Engineering*

Aug 2019 - May 2023

Achievements

- Published **five** Apps & Games to the **Google Play Store.**
- Publish **two** Apps to the **Microsoft Store** with a total of **40K+** installs.

SKILLS

C/C++, Java, Kotlin, JavaScript, NodeJs, MongoDB, Express Js, ReactJs, Python, Django, Flask, Android, Unity, PHP, Flutter, AWS, Docker, Git/GitHub, SQL, Firebase, Linux, Bash

INTERESTS

- Web Development
- DevOps
- Self Hosting Applications
- Linux
- Git/GitHub

PROJECTS

Arch WSL — *Arch WSL Distro* - Link

An unofficial Arch based WSL Distro for Windows made with the rootfs of official arch docker images, a few additional packages installed, a few configuration changes, **30K+ installations, and 60K+ acquisitions**.

Fedora WSL — Fedora *WSL Distro* - **Link**

An unofficial Fedora based WSL Distro for Windows based on the rootfs extracted from the fedora docker image with a few additional packages installed and configuration changes, with **10K+ installations, and 25K+ acquisitions.**

VMN — *Version Manager for Node and Python* - **Link**

VMN is a simple CLI tool for managing Node.js and Python versions on your system. It's written in **Go** and can be run on Linux, macOS, and Windows.

RCE — Remote Code Execution - **Link**

RCE is an http API and a CLI tool written in **Go,** allowing you to run different programming languages safely without modifying your system with the help of **Docker.**

VINEELSAI.COM — *Portfolio/Blog* - **Link**

My Portfolio cum Blog is built with **Next.js**, **React**, **MongoDB**, **Tailwind CSS**, and **Markdown**.

Collab — *Document collaboration tool* - **Link**

A Real-Time Document collaboration website written in **JavaScript** using **React** for the frontend, **NodeJs** at the backend, and **MongoDB** for the database with **Socket.io** for real-time collaboration where you can manage access to your documents.

Algo — *Algorithm Visualizer* - **Link**

An Algorithm visualizer website is written in **JavaScript** using **React** where you can visualize different **Sorting algorithms**.

Water Body Analysis — *Satellite Image Analysis* - **Link**

A Research Project as the 3rd year academic project on satellite images from Landsat 8 for detecting different types of water bodies from the Multispectral images. The experiment is conducted by programmatic analysis of different Multispectral satellite images by **Python** programming language, **OpenCV** for Image Processing, and **Tensorflow** for making a deep learning model.

Paint — *Painting App* - **Link**

Paint is a **Kotlin** app where you can draw on a canvas and save the result as an Image.