





YASH SRIVASTAVA

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EDUCATION

Indian Institute of Technology, Roorkee

2019 – 2024

TECHNICAL SKILLS

Languages: Go, C/C++, PHP, JavaScript, HTML, CSS, SQL, BASH, Python, Ruby, Solidity, GraphQL
Developer Tools: VS Code, Git, Alacritty, tmux, zsh, MongoDB Compass, MySQL Workbench, PgAdmin
Technologies/Frameworks: Django, DRF, Django Channels, Celery, Flask, FastAPI, Tensorflow, MLFlow, Node.js, Express, Socket.io, GoFiber, Beego, Gin, React, React-Native, Redux, Next.js, Svelte, Truffle, Hardhat, Ruby on Rails, Mocha, Jest, Cypress, Puppeteer, PyTest, Chrome-Extensions
DevOps: Docker, Nginx, Github Actions, Terraform, AWS, Azure, GCP, Sagemaker, ECS, Load-Balancer, Route53, Cloudfront, S3, Lambda, SQS, ACM, RDS, Apache Airflow, Serverless, Webhook.site, Step Functions

Work Experience

Cisco Systems

August 2024 – Present

Software Engineer 2 — C++, Python, GCP, AWS, VMWare, HyperV

Bengaluru, Karnataka

- Added **HyperV** support to **FTDv** and **FMCv**.
- Converted **GCP Jinja** template to Terraform format for **FTDv Autoscale** with added support of infra.
- Built Automation pipelines using **PyATS** for **SRIOV** NIC cards in **VMware** for **standalone** and **HA**.

Cisco Systems

May 2023 – July 2023

Software Engineer Intern — Redshift Spectrum, AWS Athena, AWS Glue, Datadog, OpenTelemetry Bengaluru, Karnataka

- Exported CDO events in **OpenTelemetry** format to **Grafana, Loki, Datadog, Signoz** with 10 TB data.
- Benchmarked **S3 Select, Redshift, Redshift Spectrum and AWS Athena** for querying data from S3.

Blaze AI (YC W22)

October 2021 – May 2023

Software Engineer Intern — Flask, GraphQL, Next.JS, Snowflake, Sagemaker, ECS, Cognito

Remote - San Francisco

- Built **Discord Bot** that handled analytics in the flask server using **asyncio**.
- Setup **Apache Airflow** with **AWS MWAA** to run dags for cron jobs. Implemented **GraphQL** in flask.
- Optimized I/O and Heavy Processing tasks using **threads, asyncio and multiprocessing in flask**
- Implmented **Discord OAuth, ZOOM Marketplace App** with **Airflow, AWS Lambda, API Gateway**

Farmako HealthCare (YC S20)

December 2021 – Aug 2022

Software Engineering Intern — GoFiber, gRPC, Mali, Serverless Stack, Chrome-Extension

Remote

- Built backend for **ABDM** using **GoFiber**. Created clone of **Octopods** for WhatsApp with **Webhook.site**
- Built chrome extension for labs with ReactJS. Removed **WASM** dependencies from **Rive** for animations.
- Implmented **gRPC** calls using **Mali** and migrated the chrome extension to **Electron App**

Tournafest

July 2021 – September 2021

Software Engineering Intern — Djang REST Framework, Celery, AWS Lambda

Jaipur, Rajasthan

- Devised **Database Schema**, pipeline of backend infrastructure with **Django, Celery, AWS Lambda**.
- Built pipeline to store/use images in **compressed and uncompressed state with AWS Lambda**

Google Summer of Code

May 2021 – August 2021

Student Developer at OpenStreetMap (Open-Source) — Python, SQL, C, Svelte, Falcon

Remote

- Added **Tarball support** and optimized SQL import using **multi-threading** for tiger data.
- Built bug reporter for Nominatim with **Svelte, Falcon, leaflet and Overpass API with E2E Tests**

PROJECTS

LLM Router [↗](#) | AWS, Django, BERT

June 2024 – July 2024

- Trained an **LLM router** using **BERT model** to reduce **LLM inference cost** by up to **98%** using the **FrugalGPT paper**.

AI Tshirt Designer | AWS, Django, Stable Diffusion, React

April 2024 – May 2024

- Developed a website that generated and **vectorized Tshirt designs** using **SDXL 3**.

Email to LinkedIn Lead Extractor | Outlook, AWS, Scraping, Proxies

March 2024 – April 2024

- Created a **scraper** that extracted **LinkedIn details from email** for lead generation using **Outlook** and the **LinkedIn API** that are not public and gets you banned.

YC Problems Scraper [↗](#) | Python, GPT-4

March 2024

- Developed a **YC scraper** that collects data on all **YC startups**, using an **LLM** to extract problem statements and various parameters, which are stored in **Google Sheets**.

Mail-Tracker [↗](#) | Chrome Extension, Prisma, Google APIs

August 2022

- Developed a **Chrome extension** that tracks emails are read or not.

Localhost2Phone [↗](#) | WebRTC, Chrome Extension

July 2020

- Built a **DevOps Chrome Extension** to help create **responsive apps**. This app allows testing **localhost pages on phones** by scanning a **QR code** or entering a URL in a browser. Devices must be connected via **WiFi**.
[Code](#) [↗](#)

E-Certificate Portal | AWS, Django

May 2021 – April 2022

- Authored a **highly scalable infrastructure** using **AWS Lambda, ECS, Route 53, SQS, CloudFront**, etc., to serve web requests, generating **100,000+ certificates to date**.

Web-To-App-Action [↗](#) | Ionic, Capacitor, GitHub Actions

October 2021

- Engineered a **GitHub Action** using **Ionic** and **Capacitor** to seamlessly **transform websites into Android APKs**, simplifying app distribution.

E-Summit Portal | Django, React, NextJS

August 2020 – January 2021

- Designed REST APIs in a **Django-based backend** using **Django REST Framework** and created generic **front-end components** based on **ReactJS** for **50K+ users**.
- Migrated frontend to NextJs for handling **SEO** and **server-side rendering**. Deployed using **EC2, Cloudflare DNS, Docker, and Nginx**.

EXTRACURRICULAR

MDG Space, IIT Roorkee — Head Of Technology

April 2022 – April 2023

E-Cell, IIT Roorkee — Head Of Technology

April 2021 – April 2023

ASME, IIT Roorkee — Head Of Backend

April 2021 – April 2022