SUMIT GHOSH

Bangalore, India · hi@sumit-ghosh.com · github.com/SkullTech · linkedin.com/in/summitkg

EDUCATION

Indian Institute of Technology Delhi

New Delhi 2016 – 2021

Integrated BTech and MTech in Computer Science

CERTIFICATIONS

AWS Certified Solutions Architect Associate

Link

Familiarity with designing cloud infrastructures in AWS.

PROJECTS

ArtSea Web3, React

artsea.skghosh.me, github.com/SkullTech/ArtSea

- ArtSea is a web3 app for minting and auctioning NFTs.
- Wrote two smart contracts: the NFT collection and the NFT marketplace. The marketplace allows listing an NFT up for auction, bidding on live auctions, and finalizing an auction by selling it to the highest bidder. The contract acts as a escrow service between buyers and sellers as well.
- Wrote an interactive SPA using React, using all the React best practices.
- Technologies used: Ethereum, Solidity, Polygon, React, Mantine, Hardhat, Metamask, ethers.js, IPFS, OpenZeppelin.

Drymail Python, SMTP

github.com/SkullTech/Drymail

• Drymail is a minimalist wrapper over Python's existing smtplib and email libraries, designed to be friendly but unrestrictive.

EXPERIENCE

Harmonic Labs

hlabs.xyz

Backend developer

Apr 2021 - Nov 2021

- Wrote unit tests for microservices which constitute a big data pipeline. The resulting increase in test coverage significantly improved uptime.
- Refactored and overhauled the design of a few key microservices, which led to parallelisation and almost 100x improvement in speed.
- Wrote a modern, production grade API layer using FastAPI, to be consumed internally and by customers.
- Was on-call for a few weeks and resolved all production bugs that came up.
- Technologies used: GCP, GKE, FastAPI, PostgreSQL, Python, Docker, Redis, Event Sourcing, CircleCI, PyTest.

American Express

americanexpress.com

Sofware Engineering Intern

May 2020 – Jul 2020

- Worked on the enterprise infrastructure monitoring platform.
- Developed an automation tool that aided in self-healing of systems which experience disk space related issues.
- Technologies used: Ansible, Elasticsearch, Kibana, Splunk, RabbitMQ.

Department of Computer Science and Engineering

IIT Delhi

 $System\ Administrator$

Sep 2017 - Jul 2021

- Implemented an Oauth authentication system to be leveraged by apps within the infrastructure.
- Maintaining the computer systems and networks, responding to support requests.
- Technologies used: Linux, Apache2, Reverse Proxy, VM, DNS, DHCP.

Freelancing and Contract Work

Various Companies

Software Developer

Jan 2016 - Present

- Worked with about 50 clients so far, ranging from solopreneurs to medium-sized businesses.
- Technologies used: Python, Selenium, Flask, Django, AWS, QT, Scrapy, Celery, Redis, PostgreSQL, MySQL, Nginx, SMTP, IMAP, DNS, Bootstrap, UIKit, Linux.

SKILLS

Programming Languages: Python, JavaScript, Solidity

Frameworks: FastAPI, Flask, Django, Pytest, React, QT

Infrastructure: Linux, Blockchain, Ethereum, Docker, IPFS, Redis, PostgreSQL, MySQL, AWS, Serverless, GCP, Netlify.

Tooling: Hardhat, Metamask, Git, PyCharm, VS Code, Remix.