Sudhanshu Kashyap

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EDUCATION

BITS Pilani   **May, 2022**
BE , Electrical & Electronics (Hons.)   GPA : 8.85/10

TECHNICAL SKILLS

- **Languages**: Python, Lua, C++, Go, SQL
- **Tools**: Apache NiFi, Airflow, pg-admin, Portainer, Cloudflare, nginx, Hugo, Jenkins
- **Technology**/**Framework**: AWS, Databricks, Pyspark, Docker, Kubernetes, Linux, FreeBSD, Kong
- **Areas of Interest**: Full Stack Development, Big-Data, OS, Self Hosting, Cloud, Game Development

WORK EXPERIENCE

JP Morgan Chase & Co.   **Jul. 2022 – Present**
Software Engineer 2   *Bengaluru, Karnataka*

- Optimized ETL Pipelines: Built scalable ingestion and transformation jobs using PySpark on Databricks, efficiently processing 50+ GB of data daily into a centralized data lake, reducing pipeline runtime by 30%.
- Wrote ingestion and transformation jobs in **PySpark** within **Databricks** to ingest and process data in data lake.
- Developed and implemented test utilities for **NiFi**, ensuring the efficiency and reliability of data processing workflows. Created Workflows which could handle data in volumes of 30-40 GBs on a single load.
- API Gateway Enhancements: Created Kong API Gateway plugins in Lua, enabling fine-grained control and dynamic routing for 500+ API endpoints, enhancing latency by 20% and API management efficiency.
- Gained expertise in **Terraform** for **AWS Cloud** and various AWS Technologies like API Gateway, Lambda Functions, SQS, SNS, Step Functions and DynamoDB.

PROJECTS

Google Summer of Code : CI Test Harness for Bootloader (OS)   **GSoC 2023 (FreeBSD)**

- Collaborated with **Warner Losh** to lead a project aimed at enhancing FreeBSD testing capabilities.
- Developed modular scripts in Lua and Python to support automated testing of all first and second-tier architecture combinations, incorporating dynamic configuration and reporting.
- Enabled Linux Boot support for amd64 and arm64 architectures using Linux EFI Shim (EDK II), bridging compatibility between FreeBSD and Linux environments.
- Integrated test results generation with FreeBSD infrastructure (Jenkins/GitHub Actions), facilitating seamless automation and reporting for CI pipelines.

Links : GSoC 2023 | [Github] | [FreeBSD Wiki]

Knowledge Repository : Self Hosting   **2021-Present**

- Created and maintained comprehensive book summaries and notes on a wide range of useful topics.
- Demonstrated proficiency in Linux administration by hosting the project on a self-managed bare-metal server.

Links: algo.minetest.in notes.minetest.in/toc

CareQuest : Full Stack Project   **2020-2021**
Minetest : Hosting Voxel Based Games   **2020-Present**

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** AWS Certified Developer Associate, Postgresql (Udemy), Docker & Kubernetes (Udemy)
- **Interests** : Guitar, Music Theory, Gym Training, *Games, Seinfeld*