SWAPNIL SANTHOSH NAIR

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EDUCATION

AISSCE Class X	2018	The Oxford Senior Secondary School , Bangalore	**95.3%**
AISSCE Class XII	2020	The Oxford Senior Secondary School , Bangalore	**95.4%**
B.Tech in Computer Science	2020 - Present	PES University, Bangalore	**8.99 GPA**

WORK EXPERIENCE

Fidelity Investments   **Jun 2023- Aug 2023**
Software Engineering Intern

Demonstrated exceptional leadership, led an intern team to develop an application that sped up a process by a factor of 8 and reduced human effort by a whopping 83% for Amazon EKS applications involving Jenkins ,GitHub and Bitbucket company-wide. Delivered the project in half the time allotted.

PROJECTS

Yggdrasil
Designed a Kafka and Zookeeper clone entirely in Python, featuring topic-based routing, multi-broker support, producers and consumers, and a robust Heartbeat system for failover and uptime assurance.

McFlAi
Built an on-time flight performance management system utilizing Apache Kafka, Spark Streaming, and PostgreSQL. Enabled real-time handling of high-volume, high-velocity data, catering to the aviation industry's stringent latency requirements. (Name is a pun on Back To The Future)

HyperShift
Architected an innovative event photography application using Flask, JavaScript, and Uvicorn. Enabled seamless QR-based streaming of users' content, eliminating storage and data consumption concerns.

ConFederate
Developed a federated machine learning system for accelerated healthcare diagnostics, emphasizing and implementing zero knowledge transfer among component nodes to ensure robust data security.

EXTRA CURRICULARS

The Quotient Quiz Club
Headed one of Bangalore's largest quizzing communities. Orchestrated multiple events supported by influential entities such as the Karnataka State Government and The Week

Federal Bank Speak for India
Secured a place among the top 32 participants in a nationwide debating competition.

The PESU Debate Society
Veteran member and active participant , specialized in the British Parliamentary Format of Debating

Open Source
Working on building an enhanced Jenkins module for Python.
Working on contributing to FastAPI's SSE library, augmenting event streaming capabilities for servers.

TECHNICAL SKILLS

FastAPI	Python3	Bash Scripting	C	Virtualization	Kubernetes
Linux (Debian)	PostgreSQL	VueJS	AWK	Vector Databases	Cloudaware
Kafka	Docker	Flask	Spark	Terraform	Jenkins

OTHER STRENGTHS

- Avid bibliophile with an interest in philosophy.
- Intrigued by economics, taxation, business management, valuation and quantitative analysis.
- Finalist in IIM Indore case study contest and also in the Tata Imagination Challenge