Stark Protocol: Architect's Return

STARK SYSTEM ALERT SUBJECT: UNIFIED OPERATIONAL ROADMAP — THE SOVEREIGN FORTRESS **STATUS: BLUEPRINTS SYNCHRONIZED. ASSUMING ZERO EXTERNAL VALIDATION.**

This is your **12-Month War Plan** (4th & 5th Semester). We have scrubbed all "Hope" variables. Whether IBM mails you or GSoC rejects you, this roadmap ensures that by the end of 5th Semester, you are a **Systems & Infrastructure Architect** with a lethal skill set.

🏛 THE ARCHITECT'S HIERARCHY OF POWER

1. **Level 1 (Functional):** Docker, Basic CI/CD, AWS Basics. **[STATUS: COMPLETED]**

2. **Level 2 (Engineering):** Go Concurrency, K8s Deep Dive, Linux Internals, gRPC. **[STATUS: ACTIVE]**

3. **Level 3 (Architecture):** MLOps, DevSecOps (Vault/Trivy), Prometheus/Grafana, K8s Operators. **[STATUS: PENDING]**

📅 4TH SEMESTER: THE OPEN SOURCE & SYSTEMS OFFENSIVE

Goal: Mastering the Machine. Building the "Wall" through Open Source contribution logic.

PHASE 1: THE CLEANUP (NOW – JAN 20)

- **Imagine Cup (EchoLearn):** Connect OpenAI API + Streamlit. Submit by **Jan 9** and forget.
- **IBM Prep (Blind 75):** Finish Arrays, Two Pointers, and Sliding Window in Python.
- **GSoC/LFX Early Recon: * Activity:** Identify 3 Orgs using **Go** (e.g., CNCF, Kubernetes, Prometheus).
  - **Action:** Join their Slack/Discord. Do not contribute yet. Just watch how they talk.

PHASE 2: THE GO REBUILD & GSOC PREP (JAN 21 – MAR 15)

- **The War Machine:** Rewrite **Argus in Go** using your "God-Level" notes.
- **GSoC "No-Hope" Protocol:**
  - **Feb 19:** Accepted Orgs announced.
  - **Feb 19 – Mar 15:** Pick one Org. Solve 3 "Good First Issues."
  - **The Logic:** Even if you are rejected, these 3 PRs are your "Proof of Competence" for your YouTube channel and resume.
- **LFX Spring Cycle:** Apply for CNCF/LFX mentorships in **February**.

PHASE 3: THE INFRASTRUCTURE SPIKE (MAR 16 – MAY 30)

- **Observability:** Integrate **Prometheus & Grafana** into Argus V2.
- **K8s Deep Dive:** Master **ConfigMaps, Secrets, and PVs**.
- **YouTube Launch:** Record your first "Struggle Documentary" on **Sundays**.

🏗️ 5TH SEMESTER: THE ARCHITECTURE & REVENUE OFFENSIVE

Goal: Total Autonomy. Transitioning from "DevOps" to "MLOps & Security."

PHASE 4: THE MLOPS & SECURITY BARRAGE (JUN – AUG)

- **MLOps Transition: * Tools:** DVC (Data Version Control), MLflow, and KServe.

  - **Project:** Build a Go-based API that serves a containerized ML model with auto-scaling in K8s.

- **DevSecOps:** Implement **HashiCorp Vault** for Argus and **Trivy** scans in your CI/CD pipelines.

- **LFX Summer Cycle:** Apply for MLOps/Cloud-native mentorships in **May/June**.

PHASE 5: THE SOVEREIGN CAPSTONE (SEP – DEC)

- **Genesis-Crawler:** Build the distributed RSS aggregator in Go.

- **K8s Operator:** Write a custom Operator to manage your crawler's lifecycle.

- **Revenue Generation:** Start bidding for high-ticket **Freelance DevOps gigs** using your YouTube channel and GSoC PRs as your portfolio.

🛡️ THE "MERCENARY" DAILY ROTATION

- **Mon–Fri (The Trenches):** 17:00–18:30 DSA Grind (Striver Sheet). 19:30–21:30 DevOps Project (Argus/Genesis).

- **Saturday (The Lab):** Experimentation. Break things in Linux. Try one MLOps tool.

- **Sunday (The Architect):** Morning: Review week. Afternoon: Record YouTube. Evening: Rest.

▓ THE FINAL DIRECTIVE

The goal is **30 Lakhs liquid cash** and the **Porsche**. This doesn't happen by getting "Cyan" on Codeforces. It happens by being the only person in the room who can build, secure, and scale a system for a million users.

Tonight's Act: Review Chapter 11 (Pointers) for 30 mins. **No more thinking. The path is set.**

Check out this guide on GSoC 2025 prep to understand the timelines for your open-source contributions. This video breaks down the specific

milestones you'll need to hit for GSoC, which aligns with the "No-Hope" protocol in your roadmap.

Google Summer of Code 2025 Complete Guide | GSoC Roadmap | Contributing to Open Source | @SCALER - YouTube

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