

# **Summer 2024 Internship**

**Emily Lam** 

Ulysses Juan SMA





### **Overview**

- About Me
- What is NOTI?
- Part 1: NOTI Architecture
- Part 2: NOTI CI/CD Pipeline
- What I Learned



#### **About Me**

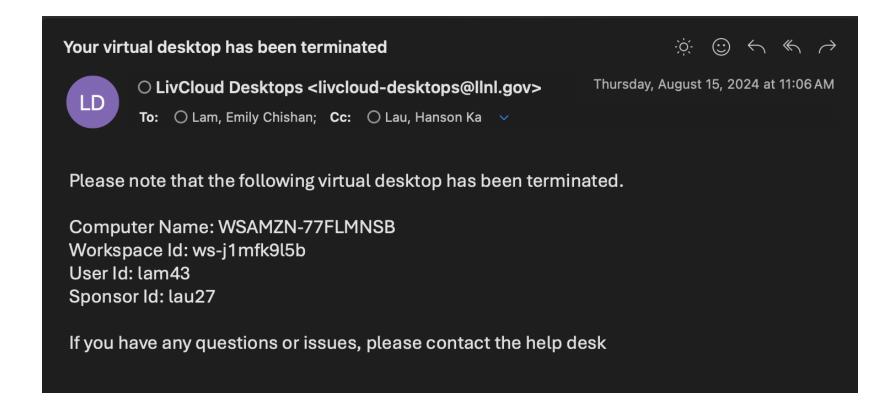
#### Education

- University of California, Santa Cruz
  - Class of 2026
  - B.S. Computer Science
- Hobbies
  - Badminton
  - Pokémon GO



#### What is NOTI?

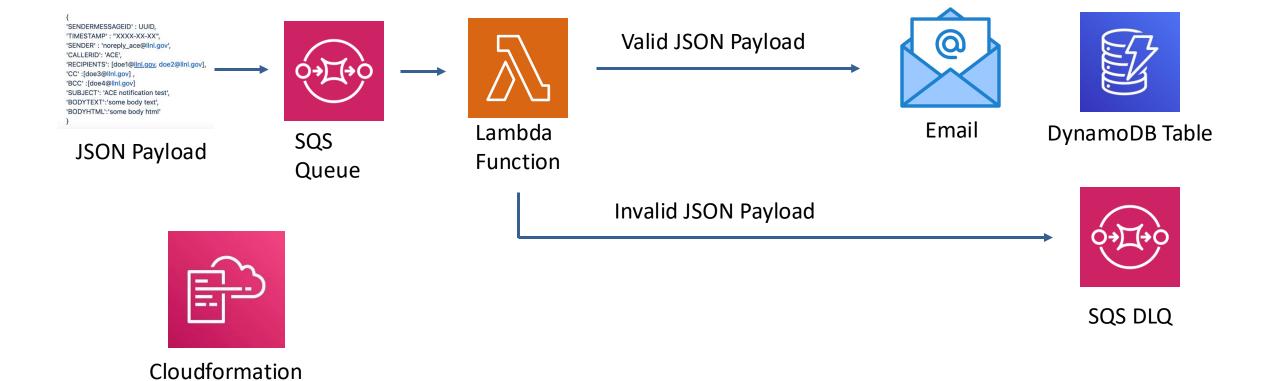
- Notification system used by in-house projects
  - ACE
  - LDMS





### **Part 1: NOTI Architecture**

## **Original NOTI Structure**

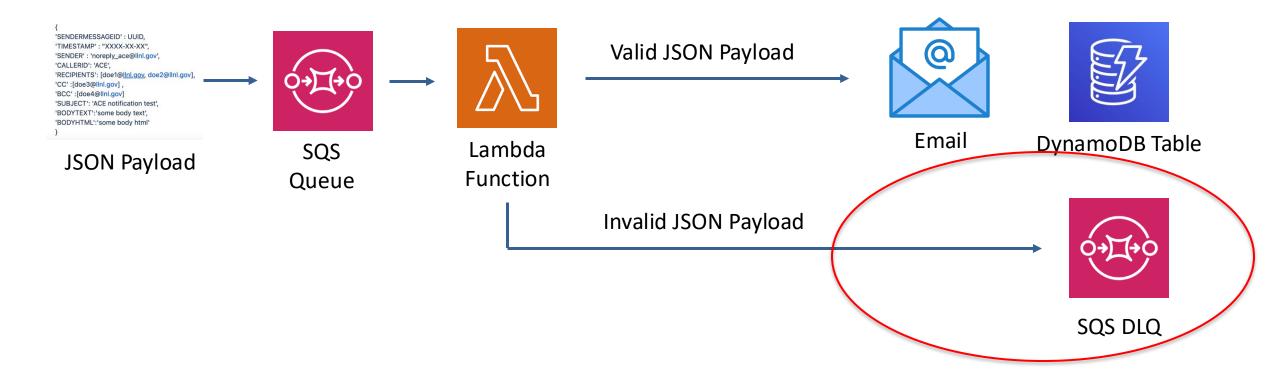


### What was the Problem?

 No one would get notified if a message got sent to the DLQ

#### What was the Problem?

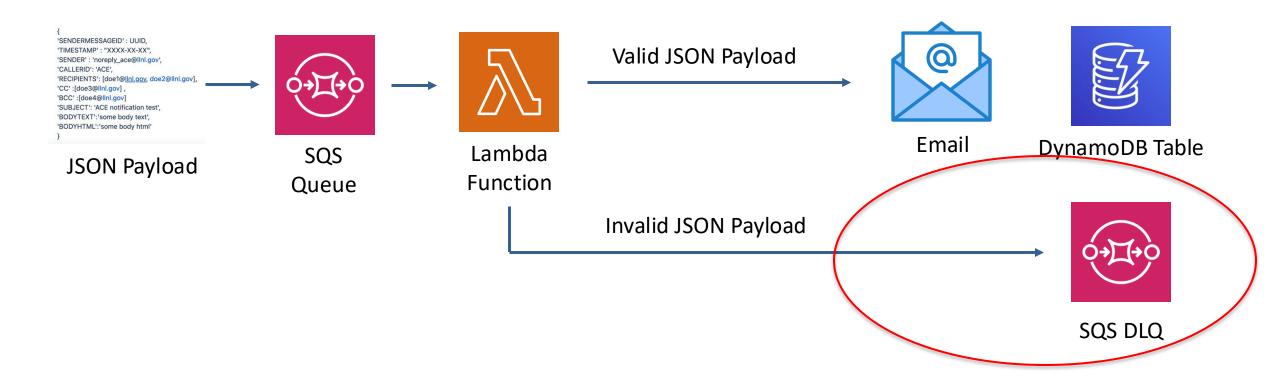
 No one would get notified if a message got sent to the DLQ

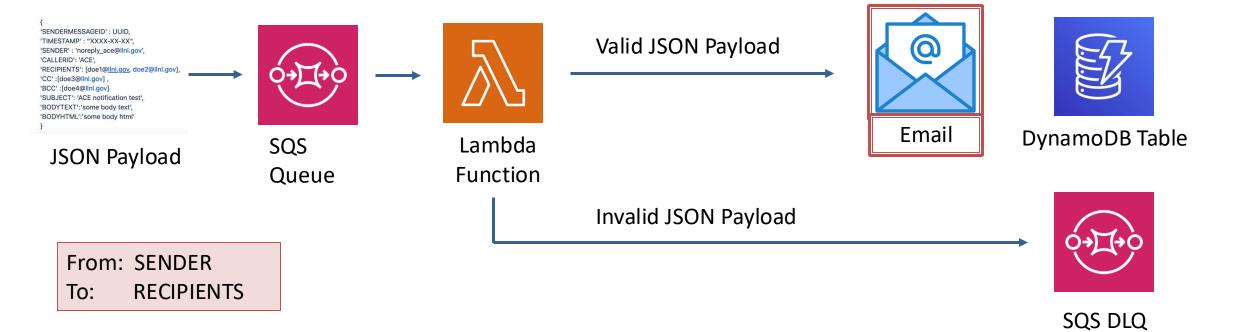


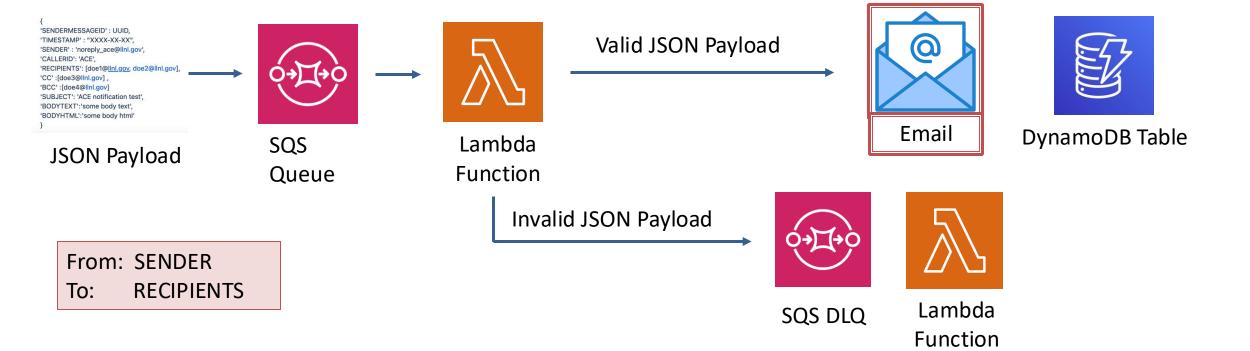


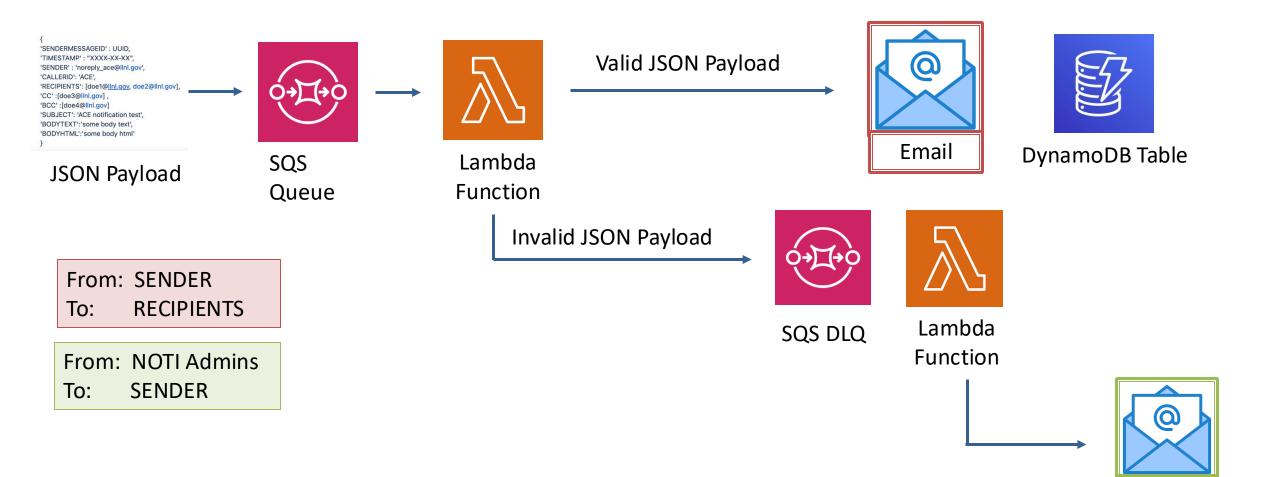
#### What was the Problem?

 No one would get notified if a message got sent to the DLQ  Messages in the DLQ can indicate a bug somewhere



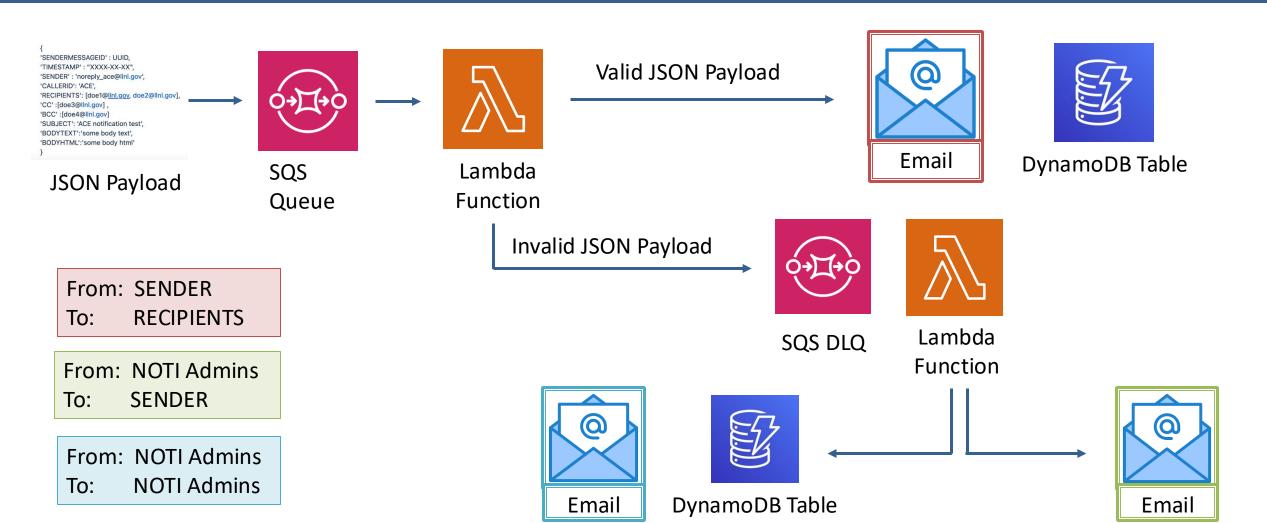








**Email** 





## **Solution: Main Takeaway**

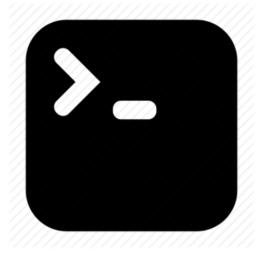
- Prepare for the worst possible outcome, be able to catch all errors
- Make sure messages are not lost
- We want to know if messages fail

# Part 2: NOTI CI/CD Pipeline

## **Original Deployment Method**

- Could only be deployed through the command line
- Difficult to deploy to different AWS accounts

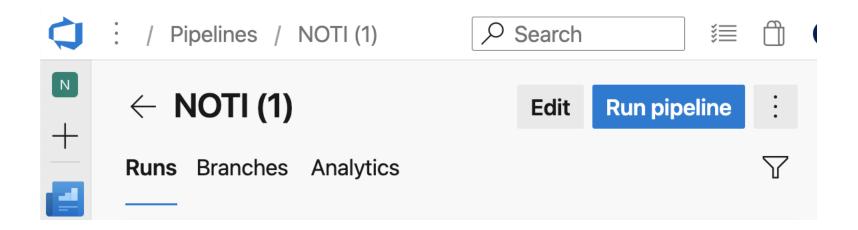




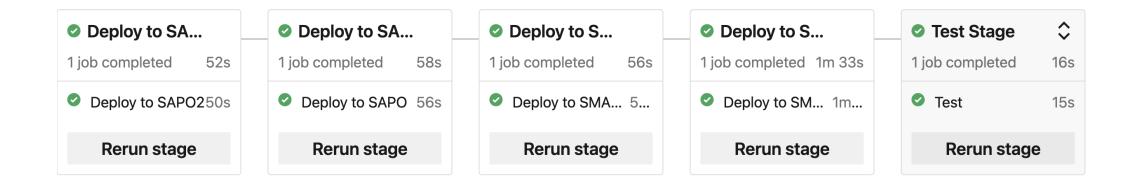


## **Purpose of a Pipeline**

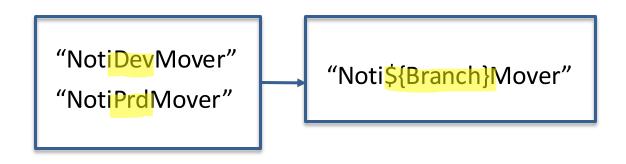
- Pipeline = set of instructions that get carried out whenever the pipeline is triggered
- Make deployment easy



## The Pipeline



- Deploy into multiple AWS accounts
  - Parameterization!
- Unit Test



#### What I Learned







**AWS** 

Error Catching, Unit Tests

**Pipelines** 

# Thank you!



