

## Student Internship Report

Student Name: Abhishek Mane

Date:

Mentor Name: Prasanna Kolambkar

Company: Evertz India PVT. LTD

Internship Address: Manyata Tech Park E1 Block Regus Business Center

Dates Of Internship: 4 January to 30 June 2023

Weekly report of the tasks completed by the intern during the internship program.

Week 1 & 2: (16/01/2023 – 27/01/2023)

- Introductory Orientation Program
- Introduction to multiple engineering teams at Evertz
- Introduction to Multiple domains and products of Evertz.

Week 3 & 4: (1/02/2023 – 17/02/2023)

- Assigned me to the File Based R&D Team J
- Introduction to python
- introduction to cloud computing
- introduction to AWS

Week 5 & 6: (20/02/2023 – 3/03/2023)

- Introduction to AWS Lambda
- Understanding different lambda integration
- Understanding lambda use cases in Evertz.io
- Creating lambda functions from AWS Console
- Invoking lambda function from boto3

Week 7 & 8: (6/03/2023 – 17/03/2023)

- Introduction to AWS API Gateway
- Integration of API Gateway with AWS Lambda & other AWS Services.
- Creating a small project on API Gateway integration with Lambda.

Week 9 & 10: (20/03/2023 – 31/03/2023)

- Introduction AWS IAM & Cloud formation.
- Learned how to write SAML Templates for AWS CFN Stacks
- Learned to Deploy Stacks.
- Introduction to AWS Cloudwatch Logs
- Deployed the Earlier Project with SAML Template in own Stack

Week 11 & 12: (01/04/2023 – 14/04/2023)

- Got the Github Account from Organization
- Learned How to Configure GitHub & Git SSO Login.
- Learned the Postman for API Testing

Week 13 & 14: (17/04/2023 – 28/04/2023)

- Worked on Feature for Data-Translation Service Owned By Team J
- Wrote a DELETE pipeline API call for DT Service
- Also Wrote Pytest to ensure the reliability of feature
- Also Performed the local & Application stack testing in Dev Environment
- Feature Successfully Merged into the Production for DT

Week 15 & 16: (2/05/2023 – 12/05/2023)

- Introduction to AWS DynamoDB
- Implemented mini project in python using Boto3 to perform the DynamoDB CRUD Operations .
- Implemented Dynamodb integration with API Gateway & AWS Lambda.
- Understood the Assume Role & Restricted Role also the difference between Roles & Policies

Week 17 & 18: (15/05/2023 – 26/05/2023)

- Participated in System Design & Architecture Meet for a new Service named Timed Jobs.
- Involved in DB Schema & GSI Design meetings.
- Started Learning OpenAPI & Swagger UI.
- Documented the entire API Schema for Timed Jobs.

Week 19 & 20: (29/05/2023 – 02/06/2023)

- Introduction to OpenTelemetry & Honeycomb.
- Went through the documentation of Open Telemetry Python SDK.
- Introduction to Marshmallow Library in python.

Week 21, 22 and 23: (5/06/2023 – 23/06/2023)

- Introduction to AWS Step Functions.
- Created Basic state machines.
- Implemented the step function with different integrations such as AWS Lambda, API Gateway.
- worked on feature to add support for folderPrefix to filestore
- made improvements in file-store-client library & upgraded it from 3.4.1 to 4.0.0
- also upgraded the old file-store-client in file-store-manager to 4.0.0 in Pipfile
- made changes in file-store-client in such way so it acts as backward compatible for older filestores that don't have folderPrefix field
- due to this feature now file store are able to point one step deeper inside the S3 bucket and now it reduces the number of buckets at tenant side
- also presented the same feature in show n tell meeting along with demonstration with my mentor

