ABHAY NORI

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Education

University of Washington - Seattle	**Sep. 2023 – June 2027**
Bachelor of Science in Computer Science (Dean's List)	*Seattle, WA*

Relevant Coursework

- DS & Algorithms
- Calculus III
- Linear Algebra
- Database Systems
- Probability and Statistics
- Hardware Software Interface

Experience

Thales Avionics	**June 2024 – Present**
Jr. Software Developer	*Irvine, CA*

Airline Integration Management System (AIMS) — PostgreSQL, Flask Python, ReactJS, Docker, JIRA, Git
- Developed a web application that keeps track of all content files for various Airline Inflight Entertainment Systems. It offers a bunch of KPI reports for Content Service Providers, and provides automated Quality Validation Reports for Media and Production Managers.
- Created Rest APIs that communicated with multiple databases for easy and quick data retrieval. Produced optimized procedures to unify data from various sources and populate the database.
- Developed web API for complex admin UI screens that displayed various KPIs that provided a clear performance picture for each airline. Provided a clean, aesthetic that integrated and unified a variety of data entries, making it easy for managers to analyze and assess data.
- Used Docker to containerize the front-end, back-end, and database to ensure a continuous integration for CI/CD development workflows.
- Collaborated with team members using GitHub, and used JIRA to track the project's epics and stories.

Thales Avionics	**June 2023 – September 2023**
Content Integration Specialist	*Irvine, CA*

Sky Scripts - Flight Script Automation — Java, Eclipse
- Created a tool to convert complex JSON files to a convenient readable excel format that was used by the FSA Test Engineers to run tests on them in the simulation labs.
- Extracted input files of various formats and converted to a standard JSON format and written to an Excel file. Includes the events that should trigger at various stages of the flight.
- Created a stand-alone tool that identifies the entire process of flight script automation for each airline and writes to an excel advising the FSA Test Engineer about each action executed at various flight stages.
- Automated a tedious task of manually entering each and every step, to a more efficient alternative and generated a Microsoft EXCEL making it easier for the airline integrator to deal with.

Thales Avionics	**June 2022 – September 2022**
Content Integration Specialist	*Irvine, CA*

XCIL Validator — *Java, Eclipse, OAuth2.0, Postman*
- Content for Inflight Entertainment is packaged in a specific format for each airline customer based on their aircraft configuration. Along with the packaged content, a content inventory list file is generated which is in XML format called XCIL that validates the content metadata and ensures all packages are as per the specification.
- Created a validator API which can be invoked by various content management systems that reads the XCIL and verifies the packaged content kept in crossload location and identify missing files, files with size differences and files with md5checksum mismatches, and capacity specific checks.
- To support this API, I developed an authentication service using OAuth2.0 to allow only the authorized client systems to invoke the above validator API by sharing the specific clientID and secrets.
- Using Postman, the complete flow was tested – authentication and later XCIL validation.
- The volume of files to be verified are in 1000's (average 5000) and the time to process should be within 2 min. The end result met the performance requirements and was successfully integrated into their CMS Pipeline.
- Collaborated with team members using version control systems (Git).

Leadership / Extracurricular

Objective Code - Project Manager	**Spring 2021 – June 2023**

- Created a full detailed Java course to help teach underprivileged children the basics of coding.