# Azhagusurya Muthazhagu

**Senior Software Engineer**

https://www.linkedin.com/in/azhagusurya-m-9309a710a/

azhagusuryasde@gmail.com

**IMMEDIATE JOINER**  Current Location:Dubai, UAE(visit visa)  Nationality:Indian  +971- 567743810, 91-7639023690 , +91-8122023690

## PROFILE • ABOUT ME

Self-Motivated, Goal Oriented Senior Java Developer with over 7 years and 5 months of experience in software design, development, implementation and software engineering which also includes integration, maintenance and testing of various client/server, and web applications using Core Java, J2EE, AWS services, SQL, Docker, Memcache, Apache NiFI, HBase, Hadoop, HazelCast and related Technologies.

## CAREER SUMMARY

- Having 7 years 5 months of IT experience in the areas of Design & backend  java microservices Development and Support.
- Expertise in Web Service (REST and SOAP) and Web application development using Java, J2ee technologies.
- Having experience in Hazelcast(in-memory-database), Hbase and Hadoop technologies in NOSQL.
- Having experience in SQL databases like H2, MYSQL, PostgreSQL.
- Rich work experience in Open source frameworks like Spring, Spring Boot.
- Excellent work experience with AWS services.
- Developed and maintained ETL workflows using Apache NiFi.
- Expertise in building tools like Maven, Gradle and npm,
- Excellent experience in monitoring production and handling production support with PAGER DUTY using tools such as  Newrelic, Grafana , ELK, Aws cloud watch,  Opensearch.
- Expertise in creating OpenSearch Dashboards for Production Support Monitoring for SREs using queries from Logs for  APIS.
- Excellent experience in building and promoting the application code to dev to Production using Jenkins, Spinnaker and Harness using deployment strategies Like RED-BLACK , BLUE-GREEN with canary.
- Hands-on experience in building dockerized Jenkins and building pipeline such as git checkout , build with maven and publish jar.
- Having experience in manual testing support in scrum team and documenting the new found test cases in excel sheet for Cucumber framework.
- Hands on experience in advanced web technologies like Hibernate.
- Hands on Experience in documenting LLD, HLD, data flow diagrams in confluence, version control Git and svn, and artifactory like Jfrog.
- Good understanding of Algorithms, Data Structures and Design Patterns.
- Working knowledge in Relational Database Systems like Oracle and fair exposure to PL/SQL programming.
- Hands on experience in linux based commands in the server, navigating and manipulating the system's directories and files in the Linux shell. hands on experience in User permission configuration, Package installation and software management. Basic troubleshooting and debugging.

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## KEY ACHIEVEMENTS

- Developed and delivered a spring boot java microservice from scratch with highly scalable, high performance Java project from a legacy C# application with high traffic system (1 LAKH request per minute) microservice which consumed by 20+ microservices.

- Done a POC on APACHE NIFI work flow which pull avro records from one S3 and convert it to a parquet file to put in to the other S3 bucket for redShift Query.  This POC has replaced 2 microservices including an lambda, kafka and an EMR. .Reduction in cost has been achieved a lot with this POC.  Result of the successful POC, many work flow has been implemented with requirements like S3 to SQL data migration and SQL to SQL data migration.

- Owned Apache NIFI server and the data flow pipelines and responsible for re- executing the flowfiles queued in failure.

## WORK EXPERIENCE

**SENIOR SOFTWARE   DEVELOPMENT ENGINEER II**  *Sep 2023 – April 2024*
Cloud Collab Technologies - **Intelsat S.A**  *CHENNAI, Tamil Nadu*

**SENIOR SOFTWARE ENGINEER**  *Aug 2022– Sep 2023*
Verteil Technologies private Limited  *KOCHI, Kerala*

**SENIOR SOFTWARE ENGINEER**  *Jan 2019 – Aug 2022*
Altimetrik india private Limited - **Ancestry**  *CHENNAI, Tamil Nadu*

**SENIOR SOFTWARE DEVELOPER**  *Jan 2017 - Dec 2018*
Payoda Technologies - **Arista**  *COIMBATORE, Tamil Nadu*

## AWARDS & HONORS

- Gem Award for quality deliverables and customer satisfaction.
- Super star of the team for the supporting and training team members across cloud AWS domain.
- Persistence award for Exemplary performance during internship.

## SKILLS

Java 1.8, 11,17 J2EE, Object-Oriented Programming, JAX-RS (RESTful web services), JAX-WS (SOAP based web services),Xml ,
**Framework**: Spring Microservices, SpringMVC,
**Spring Boot** ,Spark,GRPc
**ORM**: (JPA)Hibernate, Spring Jdbc.
**Databases:**  Experience in both SQL/NoSQL Databases in MySQL, Oracle, H2, HBase, Hazelcast, MS sql, PostgreSQL, Java Database Connectivity (JDBC).

**AWS Services:**
Kinesis Stream, Lambda, Aurora database, EMR cluster, S3 bucket, EC2 instance, SQS, ELB, ALB, Redshift, ECs, SNS, DynamoDB, Route53, MemCache.

**App / Web Server   Apache** Tomcat, Jetty
**Build Tools: Maven, Gradle**; **Version Control**: SVN, Git
**Methodologies:**
**Agile Scrum** Methodology, Agile Methodologies Experience and **SAFe 6**.

Maintaining Coding standards, Code reviews and Familiarity with design patterns, **Web application development, Microservices Architecture.**
**Development and other Tools**:  Eclipse, **IntelliJ**, Fiddler, Microsoft SQL Developer, **Apache NIFI**, Swagger, SonarQube, GitHub Desktop, GitLab
**Test/Mock tools:**   Testing and debugging, Troubleshooting, **Junit**, Mockito, Integration Testing, **Postman**, Performance test using **Jmeter**.

**Continuous Integration Expertise: CI/CD**
Software Development Life Cycle (SDLC), Expertise in deploying solutions in both on-premises and **cloud environments (AWS),** ensuring scalability and robustness using **Jenkins**, Redmine, **Spinnaker**, **Harness**, Blue- GREEN deployment, RED-BLACK deployment, **Docker**.

**Monitoring Tools:**  NewRelic One, Grafana, OpenSearch, Dynatrace, Aws Cloud watch, PAGER duty for production support.
**Documenting Tools:**
  Bugzilla, Rally, Confluence, **Jira** Board and Excel for formal documentation inclusive of HLD, LLD, Test Cases

## PROJECTS

| **Project** | **CloudVision Portal (CVP)** | January 2017 – December 2018 |

**Description**:
        CloudVision Portal (CVP) abstracts the physical network to support turn-key automation for zero touch provisioning, configuration management and network-wide upgrades and rollback.
 **Responsibilities**:
- Developed the user stories provided by Business Analyst and delivered them sprint wise.
- Developed well written JUnits based on usage and boundary conditions and functionalities developed.
- Done the database (Hbase , Hazelcast) changes
- Diagnosed and troubleshooted customer technical problems and investigated the root-cause analysis of customer issues arising during production.
- Coordinated with the clients to get inputs/clarification whenever it required.
- Responsible for complete assigned backend deliverables.
- Ensured on time quality deliverables.
- Responsible for debugging and fixing bugs in existing applications,
- Efficiently fixed and reduced the bugs and vulnerabilities respective to the SonarQube rules and achieved 'A' - Green Tag.

| **Project** | **Reporting service** | January 2019 - March 2019 |

**Description**:
    Reporting Service is the Data warehouse system which receives data from multiple services and pushes into the data warehouse through our data pipeline.We have designed and implemented our own data pipeline using AWS services and java micro services.This system was constructed for a data analytic team. The data is received from operation teams, while image processing, scanning the images and quality checking the images.
**Responsibilities**:
- Design and implement the reporting micro service application for collecting large amounts of data from multiple applications.
- Build the Kinesis Stream to publish all the events received from the reporting service which later queried from Redshift.
- Implement Spark application execute in EMR AWS services to remove duplicates in the streaming data and stored into S3 Bucket.
- Using Spark program for data analyzing, reporting and backfill process.
- Using Git repository for java code version control, Maven and Gradle for build process, Jenkins for continuous delivery pipeline.

| **Project** | **Reporting service workflows in Apache NIFI** | March 2019 - September 2019 |

**Description**:
    Automated the Reporting systems with aws service via NIFI workflows.
**Responsibilities**:
- Experience with NIFI specifically with developing custom processors and workflows
- Worked on POC NiFi data Pipeline to process a large set of data and configured Lookup for Data Validation and Integrity.
- **Worked with Devops team to configuring NIFI Pipeline on EC2 nodes** integrated with S3,Redshift , Aurora running on other instances using SSL handshakes in QA and Production Environments.
- Worked extensively on building Nifi data streaming pipelines from AWS S3 to Database.
- Design and Implement APACHE NIFI flow for aurora database Binlog listener.
- Developed detecting duplicate entries in avro and unique entries on destination s3 and converted parquet for redshift reporting.
- Worked with different file formats like Json, AVRO and parquet and compression techniques like snappy. Nifi ecosystem is used.

| **Project** | **R&D: Workfront Desktop APP** | September 2019 - October 2019 |

**Description**:
            WorkFront APP: R&D desktop app for windows which backfills and bulk creates / updates/deletes task , task assign , work entries , from CSV/Excel over records with SSL and authentication SSO login
**Responsibilities**:

- Designed and developed a desktop app for windows which can upload CSV/Excel and update via workfront APIS .
- Tested troubleshooting methods devised innovative solutions, and documented resolutions for inclusion in the knowledge base for support team use.
- Reviewed project specifications and designed technology solutions that met or exceeded client expectations.
- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance.

**Project**                    **R&D: AuthUtil library**                    October 2019 - December 2019

**Description** :
R&D: AuthUtil for jwt token validation via annotation

**Responsibilities**:
- Designed and developed a library util which is used across the company consumed by 200 projects.
- Tested troubleshooting methods devised innovative solutions, and documented resolutions for inclusion in the knowledge base for support team use.
- Adaptively designed and developed with the rapid changes in the requirements.
- Reviewed project specifications and designed technology solutions that met or exceeded client expectations.
- Maintained effective customer relationships and identified future business opportunities to support

**Project**                    **Community Profile**                    September 2019 - August 2022

**Description**:
Legacy Larger Stack Migration (.Net to Java) and database migration from Microsoft SQL to MySQL.

**Responsibilities**:
- Maintained effective customer relationships and identified future business opportunities to support and strengthen corporation mission.
- Managed quality assurance program, including on-site evaluations, internal audits and customer surveys.
- Designed, implemented and monitored web pages, plugins and functionality for continuous improvement.
- Collaborated on all stages of systems development lifecycle, from requirement gathering to production releases.
- Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs and enhancements.
- Pioneered new methods of code review to incorporate a wider range of voices, enhancing final products with ideas otherwise overlooked.
- Carefully documented technical workflows and knowledge in private wiki for education of newly hired employees.
- Created workflow diagrams and Gantt charts to clearly demonstrate processes and timelines.
- Designed updates to existing software to meet changing customer demands.
- Collaborated with other developers to identify and alleviate software errors and inefficiencies.
- Produced robust, accurate code that minimized production issues.
- Migrating database from Microsoft SQL to MySQL, and converting store procedures to queries.

**Product**                    **VDC Product**                    August 2022 – September 2023

**Description**:
Verteil Direct Connect API provides a standard interface for travel agents and agencies to access all airlines in one place. The Admin Agency team focuses on integrating new agencies registered to the system, as well as, do enhancements in the existing agencies like adding sub agencies, adding more admins, agents , sub agents and more added functionalities. VDC product has 30+ Airlines as direct customers.

**Responsibilities**:
- Work with developers, program and product management to deliver objectives/goals together as a team.
- Designed and implemented Java-based applications.
- Responsible for backend modules of admin, agent profiles, onboarding customers, agencies as well as guest purchase.
- Reviewing peer codes. Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs and enhancements.

**Product**          **Intelsat (CUSTOMER Profile microservices & APIdecorator)**          September 2023 – April 2024

**Description**:
Intelsat's W-IFE provides shows and movies your passengers want directly to their devices. As per the subscription of the purchase, users are able to use wifi inside the flights(tiles). Intelsat has ground and portal (Air) applications which are currently consumed by 14 airlines in the world as of now. Users can purchase prior or during the flight travel hours.

**Responsibilities**:
- Designing, implementing and monitoring web pages and functionality for continuous improvement
- Designed and implemented the security questions for user accounts across the profile module APIs.
- Reviewing peer codes. Documenting LLD & HLD for the user story.
- Responsible for Maintaining sonar code quality for multiple backend microservices owned by our team.
- Contributing PI Planning for the product's improvements.
Supporting end to end delivery and post deployment monitoring for the delivered sprints stories.

# EDUCATION

**ELECTRONICS AND COMMUNICATION ENGINEERING, BACHELOR OF ENGINEERING.**     Graduated, March 2017
Karpagam College of Engineering, Coimbatore, Tamil Nadu     Marks 8.89 [CGPA

**COMPUTER SCIENCE, 12TH** STATE BOARD, AKT Academy Matriculation Higher Secondary School,     Graduated, March 2013
Villupuram, Tamil Nadu.     Marks 93.33%

**SSLC, (10TH)** STATE BOARD     Graduated, March 2011
Govt.Higher.Sec.School, C.N.Palayam, Cuddalore, Tamil Nadu.     Marks 97.4%

## PERSONAL INFORMATION

**Visa Status**: VISIT VISA.,UAE. ( til August)

**Nationality**: Indian.,

**Total Experience**: 7 years 5 months.,

**Relevant Experience**: 7 years 5 months.,

**Experience Domains**: Airline (2 years), HealthCare (3.5 years), Networking (2 years)

**Notice Period**: 0

**Possible Joining Date**: Immediate Joiner.

**Languages:**
**English**  read, write, speak.
**Tamil**  read, write, speak
**Malayalam**  speak.

**Gender**: Female,

**Marital Status**: Single

**Disability**: NO

**REASON FOR JOB CHANGE**: Relocating to Dubai.