

# Duraipaandiyaan Anbumani Poongothai

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## Professional Summary

Full Stack Java Developer with 2+ years of work experience at Ford Motor Company, experienced in building scalable enterprise applications using Java, Spring Boot, and Angular. Proficient in developing secure REST APIs, implementing CI/CD pipelines, and deploying applications to Google Cloud Platform (GCP) within agile DevOps environments. Strong understanding of Object-Oriented Programming (OOP) and a solid foundation in Data Structures and Algorithms. Experienced with both relational (MySQL, PostgreSQL) and NoSQL (MongoDB) databases, with a focus on clean code, performance optimization, and effective team collaboration.

## Technical Skills

Programming	Java, Python, SQL, JavaScript, Typescript, C, C++
Backend Frameworks	Spring Boot, Play, Django, Django Rest Framework, Apache Kafka
Frontend Frameworks	Angular, React, Bootstrap, PrimeNG
Data formats & Markup	HTML, CSS, JSON, XML
Database	MySQL, Oracle Database, SQLite, DB2, H2B, Neo4J, PostgreSQL, MongoDB
DevOps & CI/CD	Jenkins, Maven, Gradle, Git, Tekton, Docker, Kubernetes, Heroku
Cloud Platforms	Google Cloud Platform (GCP), AWS
Testing & QA Tools	JUnit, Mockito, SonarQube, SonarLint, Postman, Jasmine, JaCoCo, ReadyAPI, JMeter
Security, Monitoring & Tools	42Crunch, FOSSA, Cycode, Dynatrace, Wireshark, JIRA, Alteryx
Scripting & Automation	Shell scripting, Cron Jobs, Log Monitoring.
Competencies	Object-oriented programming, Data Structures and Algorithms, REST APIs, Agile, Scrum, Design patterns, Microservices, TDD, Quality Assurance

## Work History

### Software Engineer – Full Stack Java Developer

May 2023 - July 2023

Ford Motor Company (Ford Business Solutions), Chennai, India

- Migrated key services to Google Cloud Platform (GCP), reducing infrastructure costs and streamlining deployments.
- Built Kafka streams to support real-time data synchronization across distributed services, enabling dynamic updates and decoupled system communication.
- Optimized MySQL performance using query refactoring, stored procedures, and index tuning for faster transactional processing and reporting.
- Mentored junior developers and supported cross-functional Agile teams, accelerating onboarding and delivery.
- Led client discussions to adopt new PLM features, aligning business needs with technical solutions.

### Junior Engineer – Full Stack Java Developer

Aug 2021 - Apr 2023

Ford Motor Company (Ford Business Solutions), Chennai, India

- Upgraded legacy systems to Java 11/17+, enhancing performance, maintainability, and compliance with enterprise standards.
- Designed secure REST APIs using Spring Boot and OAuth2, enabling scalable microservices.
- Achieved 90%+ test coverage via Test Driven Development (JUnit, Mockito), reducing QA defects by over 60%.
- Built and integrated Angular UI components, ensuring seamless backend interaction.
- Automated CI/CD pipelines with Jenkins and Tekton, reducing deployment time by 90%.
- Containerized applications using Docker and deployed to Google Kubernetes Engine for automated, cloud-native delivery in dev and QA environments.
- Implemented SonarQube quality gates and SCA tooling (Cycode/FOSSA), eliminating critical vulnerabilities pre-release.
- Integrated 42Crunch API-security scans into the CI/CD pipeline and enforced Swagger / OpenAPI-first contracts, eliminating spec drift and blocking high-risk misconfigurations before production.
- Resolved critical production issues through proactive log tracing and root cause analysis.
- Automated ETL workflows and reporting using Alteryx, enhancing data accessibility and improving visibility for QA and business teams.

## Projects

### YouTube Analytics Web App using Play framework | Java, Play Framework, Akka, WebSockets, Mockito, JaCoCo

Sep 2024 – Dec 2024

- Built a Play Framework web app for real-time YouTube video search.
- Developed channel profiling, word statistics, and tags analysis using Java Streams & async programming.
- Integrated WebSockets & Akka Actors for dynamic updates.
- Implemented full TDD workflow with Mockito and JaCoCo to ensure 100% test coverage.

### Fashion Product Classification using CNN | Python, PyTorch, CNN, Google Colab, Kaggle Datasets

Jan 2024 – Apr 2024

- Built a deep learning model for fashion product classification using Convolutional Neural Networks (CNNs).
- Implemented and compared VGG16, ResNet18, and MobileNetV2 architectures on multiple datasets.
- Trained 9 models from scratch and 2 using transfer learning, optimizing performance with hyperparameter tuning.
- Utilized Google Colab's cloud GPUs for efficient model training and evaluation.

### Distributed Task Management System using DRF | Python, Django, DRF, PostgreSQL, REST API, Postman, AWS

Sep 2023 – Dec 2023

- Designed and implemented a distributed task management system as part of the Distributed System Design course, using Django and Django Rest Framework
- Developed modular backend architecture with stateless RESTful APIs to support scalable and fault-tolerant communication across microservices.
- Used PostgreSQL as a relational database for durable task and user data, applying normalization and indexing techniques to optimize performance.
- Ensured secure API interactions with token-based authentication and performed thorough API testing and debugging using Postman.
- Deployed on AWS for real-time accessibility and tested distributed performance behavior under variable load.

### Inventory-based System for Super Market Management | Java, MySQL, JDBC, Java FX, Junit

Jan 2019 – Mar 2019

- A standalone Java-based computer application for supermarket management. The application serves the entire management process, including various aspects of stock purchase, stock management, customer data history and purchase billing.
- Built the application using Java, JavaFX. Managed the database of the application through MySQL.
- Role: Served as the full stack developer - completed the requirement analysis and defined database schemas and implemented the front end and back-end code.

### Locality Spotter – Android application | Java, XML, Firebase, Google Maps API

Jul 2018 – Dec 2018

- An android application that categorized nearby places such as ATMs, schools, restaurants, shopping malls etc. based on the selected locality.
- Integrated Google Maps API and Google places API to fetch and display categorized nearby locations dynamically. And enabled real-time navigation across localities with a configurable range.
- Built UI using XML and implemented core logic using Java, ensuring smooth map-based interactions and intuitive user experience.

## Leadership Experience

### Vice President – Academic & Advocacy

Jun 2024 - May 2025

Graduate Students' Association, Concordia University, Montreal, Canada

- Served as University Senator representing 8,000+ graduate students; led key academic committees and contributed to institutional governance and policy.
- Directed GSA's academic and advocacy efforts, managing the Advocacy team and addressing student rights, supervision, and research policy issues.

## Education

### Master of Applied Computer Science

Sep 2023 – Apr 2025

Concordia University, Montreal, QC, Canada

Key Courses: Algorithm Design Techniques, Distributed System Design, Advanced Programming Practices, Applied Artificial Intelligence.

### Bachelor of Engineering – Computer Science Engineering

Aug 2017 – Apr 2021

Sri Krishna College of Technology, Anna University, Coimbatore, TN, India

Key Courses: Object Oriented Programming, Data Structures and Algorithms, Database Management Systems, Software Development, Computer Networks.