

Lovesh Dongre

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Skills

Java EE, AWS, Data structures & Algorithms, Object Oriented Programming (OOPS), Design Patterns, Spring, Guice, Dagger, Microservices, Collections, MySQL, HTML, CSS, TypeScript, JavaScript, JSP, Servlets, SQL, Nodejs, Adobe XD, Figma, Linux, Git, Agile, Eclipse, NetBeans, DBMS, Operating System, REST API, Apache tomcat, Lambda, SQS, SNS, IAM, S3, Step Function, DDB

Experience

Amazon, Hyderabad

Tech: **Java, AWS, Nodejs, TypeScript**

Software Development Engineer

01/2025 - Present

- Engineered solution for providing visibility of Brazil invoice amount paid as these invoices were processed in a new manner. Also, backfilled data for the earlier processed invoices resulting in visibility for **3 million invoices** which is used for reconciliation of the data.
- Implemented a fix for handling race condition issue causing data corruption. Used transaction based approach to handle race condition and idempotency. This removed the operational load of fixing corrupted data (**7k invoices in 4 months**)
- Build LLM Chatbot Interface Layer - It comprises of the creation of Slack app and business logic to interact with the Bedrock agent which **reduced 2+SDE days** during on-call.
- Implemented tax recoverability population in a service to launch payments for third party carriers for the new payment engine. This work demanded precise handling of edge cases, including managing race conditions, ensuring idempotency during reprocessing, maintaining backward compatibility for existing invoices and avoiding circular dependency for AWS infrastructure. This is expected to become **15%** of Amazon logistic.

Programmer Analyst

08/2022 - 12/2024

- Engineered idempotent behavior for an API, enabling the redriving of **359 (44k USD) & 102 (13k USD)** messages for reconciliation, mitigating AWS Kinesis LSE and resolving 2 sev 3 tickets.
- Addressed the impact of SSE enablement deployment by writing custom scripts to extract data from logs and filter it to post messages to SQS. Reconciled **271,330 invoices**, impacting **~211 million dollars**.
- Developed Data Validator packages for two services, automating test cases and **eliminating manual effort** during UAT testing.
- Integrated SNS DLQ into 3 services and identified, designed, and fixed an issue in production deployment caused by manually created SNS subscriptions despite CDK code, **preventing service downtime**.
- Enhanced common CDK constructs package to include ECS Service alarms, **accelerating development time** across the entire org of TFS (Transportation and Financial System) saving developer time by **2 - 3 days**.
- Built **generic SNS Publisher** to publish payment notification model for downstream. All the changes infra related changes were done via CDK.
- Optimized integration tests to run from **1 to 3 regions** by dynamically configuring realms in the build file and introduced a **custom annotation** for running test cases in specific regions

Tata Consultancy Services, Pune - Systems Engineer

07/2021 - 07/2022

Tech: **Nodejs, Salesforce, ISML**

- **Among top performers** who contributed features for Cart, Order History, Jobs, and other key areas for one of Japan's largest e-commerce sites.
- Refactored high time complexity code performing **"C₂ checks**, reducing it to **just 1**, improving both time complexity and maintainability.
- Streamlined product favoritism functionality from guest to logged-in sessions, avoiding changes to Salesforce configuration.
- Automated deployment process, cutting the time from **20 mins to 5 mins**, simplifying team deployment, and minimizing errors.
- Simplified population of a field coming from external website using query parameter which reduced the chances for error and enhanced customer experience.
- Automated client-side certificate generation, shrinking the process time from **10 minutes to a few seconds**.

Internships

National Informatics Centre, Delhi - UI/UX Intern

12/2019 - 01/2020

Tech: [Adobe XD](#), [HTML](#), [CSS](#), [JavaScript](#), [jQuery](#), [flexbox](#)

- Reconstructed reusable components, enhancing code quality and **reducing code by 20%**.
- Applied UX fundamentals to design a simple, linear flow that **increased readability by 40%**.

HackerKernel, Bhopal - Backend Intern

06/2019 - 07/2019

Tech: [Nodejs](#), [Sequelize](#), [Handlebars](#)

- Developed a complete admin dashboard for a SaaS platform, building CRUD APIs for the web app.

Danish Housing Society Pvt Ltd, Bhopal - Fullstack Intern

07/2018 - 03/2019

Tech: [Java EE](#), [JSP](#), [JSTL](#), [Servlets](#), [HTML](#), [CSS](#), [JavaScript](#), [AJAX](#)

- Modernized the billing system, reducing the company's paper usage by 30%, which also lowered training time for new operators.
- Introduced new features, fixed bugs on-demand, and maintained the database with regular backups.

Projects

Machine Learning & Web app - Automation tool for fetching college result in bulk | [Code](#)

Tech: [Angular](#), [Django](#), [Selenium](#), [TensorFlow](#), [Python](#), [TypeScript](#)

- Crafted an ML automation tool to download student results (5sec/student) and devised a custom image classifier with a **98% accuracy rate** to decrypt CAPTCHA images.
- Produced reports and data visualizations in PDF and Excel.

Browser Extension - LeetCode Enhancer | [Live](#) | [Code](#)

Tech: [HTML](#), [CSS](#), [JavaScript](#)

- Launched an open-source cross-browser extension for leetcode.com, helping coders overcome psychological barriers and improving productivity, accumulating **20,000+ downloads** on chrome, edge and firefox. Included **AI for refactoring** code powered via Cohere.

Full Stack Java EE Web app - Music Player | [Code](#)

Tech: [Java EE](#), [JSP](#), [Servlets](#), [AJAX](#), [CSS](#), [JavaScript](#), [HTML](#), [Bootstrap](#)

- Developed a music streaming web app which enabled **uninterrupted music streaming**. It consists of features like searching music and user authentication.

Web apps - Convolution: College Tech Fest Web apps | [Live](#) | [Code](#)

Tech: [HTML](#), [CSS](#), [JavaScript](#), [jQuery](#), [AJAX](#)

- Made challenging frontend pages for the tech-fest website and 3 puzzles web app for the final round of an event which cut the **printing cost to 0** and designed the database.

VR housing furnishing android app - VR House furnishing via bluetooth controller | [Video](#)

Tech: [Unity3D](#), [C#](#), [SQLite](#)

- Engineered a VR application for designing house interiors and coded a **custom driver to support Bluetooth controllers** for 2 operating systems i.e. Windows and Andriod. The controller is used to select, position, rotate and scale objects in the virtual environment.
- Incorporated features to move inside a virtual environment using phones gyroscope sensors and with UI components for the virtual environment controlled via Bluetooth controller.

Awards and Honors

Marker Cup , Highest marks (99.4%) in Computer Science, Delhi Public School, Bhopal	2016
First Runner up Prize , CodeAdept 2.0 Competed against 300 coders in UIT RGPV, Bhopal	2018

Publication

- Published "**Analysing Crimes of Indian Datasets Based on Machine Learning Methods**" to Turkish Online Journal of Qualitative Inquiry. | [Link](#)

Education

University Institute of Technology, RGPV, Bhopal	04/2017 - 05/2021
B.Tech. in Computer Science & Engineering	86.3%
Delhi Public School, Bhopal	03/2016 - 03/2017
Class 12th (PCM + Computer Science)	88.6%
Delhi Public School, Bhopal	03/2014 - 03/2015
Class 10th	83.6%