

LAVISH

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Experience

Unique Identification Authority of India

Jul 2023 – Present

Software Engineer

Bangalore, India

- Designed and enhanced a **Java-based desktop application (Universal Client)** deployed across **100+ Aadhaar centers**, supporting **1L+ secure enrollment and update transactions daily**.
- Owined end-to-end development of complex enrollment and update workflows (Indian Adult, Foreign Resident, NRI, Child, Demographic & Biometric), replacing legacy ECMP flows and enabling a unified modern UI.
- Contributed to the rollout of the new Universal Client, reducing Aadhaar generation and updation failures by **62%**, and actively delivering **weekly production deployments** of new features and bug fixes as part of a continuous improvement cycle.
- Implemented business-critical identity logic including Head-of-Family-based enrollment, BRN-driven child onboarding, address inheritance rules, and conditional demographic validations across **50+ user flows**.
- Built security-focused POCs, including a **Flutter-Java native bridge** for biometric PID data rendering and an **OAuth 2.0 authentication flow using Okta**, enabling secure, token-based access.
- Designed and developed a custom client automation framework from scratch using **Java, assertj, and Robot libraries**, authoring **300+ automated test cases** tailored to Universal Client workflows, **reducing manual testing effort by 80%**.
- Diagnosed and resolved high-severity production issues, including a **critical Java Heap Space memory leak**, using **JVisualVM, JProfiler, Elastic, and Metabase** for root-cause analysis and 24/7 production support.
- Integrated **Typst**-based PDF generation in demographic services, achieving **80%** faster document generation and improving throughput for high-volume enrollment workflows.
- Led document workflow redesign within Universal Client, reducing document-related Aadhaar rejection rates by **30%** and improving first-pass success for operators.

MAQ Software

May 2022 – Jul 2022

Software Engineering Intern

Hyderabad, India

- Collaborated with internal tools team using **React, SQL Server, and C#** to optimize enterprise workflows.
- Revamped the organizational attendance portal**, reducing manual approval steps and cutting managerial workload by **40%**.
- Gained exposure to **Agile practices, version control (Git), and CI/CD processes**.

Education

Indian Institute of Technology, Bhilai

Jul 2019 – May 2023

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.25

Notable Projects

Ask IT

2021

Full Stack Q&A App

React, Firebase, CKEditor 5

- Developed a fully responsive Q&A web app with rich text input and Firebase Authentication via email and federated identity providers.
- Designed Firestore-based backend for real-time data sync across users.

Quiz App

2022

Real-time Quiz Platform

MERN, Material UI, JWT, Netlify

- Built a dynamic quiz platform featuring real-time leaderboards, results archive, and JWT-based user auth.
- Deployed on Netlify with serverless backend and responsive Material UI interface.

Skills

Languages: C++, Java, Python, C, JavaScript, Dart, PHP, HTML, CSS, SQL, MySQL

Frameworks/Tools: ReactJS, NodeJS, ExpressJS, Flutter, Docker, Git, MongoDB, Java Swing, JUnit, OAuth, Firebase, Serverless Functions

Areas: Full Stack Development, Android Development, Unit Testing, REST APIs, Authentication, Deployment, Data Structures and Algorithms