Dipa Halder

(+91) 6291480532   ✉ haldersonu36@gmail.com   in Dipa Halder   ○ sonuhalder24   ᗡᎶ haldersonu36   ⟐ sonu_halder24

Work experience

Tata Consultancy Services | *Java, JSP, Servlet, JavaScript, PL/SQL, SOAP Service , Weblogic, Oracle*   **Kolkata, India**
System Engineer   (August 2023 – Present)

- Project based on **J2EE / Java EE Enterprise** Application. **Developed and enhanced** multi-tier enterprise modules (client, web, and database layers) for car insurance operations including policy issuance, renewal, and cover management.
- **Automated policy renewal workflows**, improving operational efficiency and reducing manual intervention. **Designed and implemented SOAP-based Web Services** for seamless server-client integration and third-party system communication.
- **Optimized premium computation and sum-insured logic** for new cover additions, ensuring business rule accuracy**. Implemented SAML-based Single Sign-On (SSO)** for secure, seamless user authentication and session control.
- Executed major technical upgrades – **Java 6→8** migration, **WebLogic 10→12** upgrade, and **Oracle 12c→19c** database modernization. **Resolved 30+ production defects**, improving application stability, performance, and user satisfaction.
- Collaborated with cross-functional teams to ensure high-quality deliverables aligned with business goals.

AICAN Automate LLP | *Andriod, Java, Firebase*   **Remote, Mumbai, India**

App Developer Intern   (September 2021 – January 2022)

- Developed **IoT-based Home and Lab Automation applications**, integrating Android apps with embedded systems and multiple hardware sensors.
- Implemented features like **QR code scanning for lab components, automatic AC control**, and **computer vision–based object height detection**.
- Integrated **REST APIs and IoT communication protocols** to ensure seamless real-time data exchange between devices and applications.

Thinker Lab | *Andriod, Java, Firebase*   **Remote, Kolkata, India**

Android Developer Intern   (July 2021 – August 2021)

- Designed and developed a comprehensive **E-Learning Android Application** with interactive features like **video streaming, one-to-one coaching, quizzes, and automated email scheduling**.
- Integrated **secure API-based live video streaming** and **dynamic quiz modules** with real-time scoring and performance analytics to enhance learner engagement.

PROJECTS

Health Care Service Management| *Spring Boot, Angular , TypeScript, PostgreSQL*

- **Developed a secure RESTful API** using Spring Boot with **JWT-based authentication** for user login, patient management, and appointment scheduling.
- **Built an interactive front-end** in **Angular**, integrating API endpoints for real-time data display and CRUD operations.
- **Implemented middleware and role-based access control**, optimized service logic, and validated endpoints via Postman for robust and scalable performance.

Audio Pitch Changer| *Spring Boot, HTML, CSS, Vanilla JavaScript*

- **Developed a web-based audio processing tool** that allows users to upload audio files and adjust pitch dynamically without affecting playback speed.
- **Implemented core audio transformation logic** using Java and tarsos dsp for frequency and time-domain processing with efficient file handling.
- **Designed an interactive front-end interface** enabling smooth user experience for audio upload, pitch control, and playback.

EDUCATION

Kalyani Government Engineering College, Kolkata, India   *(2019 – 2023)*

Bachelor of Technology(B.Tech) in Information Technology - CGPA - 9.13

Barisha Purba Para High School, Kolkata, India   *(2017 – 2019)*

Higher Secondary Certificate - Percentage – 89%

SKILLS AND ACHIEVEMENTS

Solved over **350** problems on various coding platforms.

Languages: English (Fluent), Hindi (Intermediate), Bengali (Native)

Programming Languages: Java, JavaScript

Web Technologies: HTML5, CSS

Frameworks/Libraries/Platforms and Tools: Spring Boot, Angular, Node JS, GIT , Jenkins, Android ,Firebase

Databases: PL/SQL, MongoDB , PostgreSQL

Hobby: Singing, Playing Guitar