

# ABHISHEK ANAND

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## EXPERIENCE

### HCL Technologies Limited (HCL)

Technical Lead

Chennai, India

Jan 2023 - Present

- Worked as a Spring boot-Angular Fullstack developer in the development of **Instrument Software**, a microservices-based application with Postgres as the database.
- Implemented Data Purge feature. Used schedulers for triggering purge and RabbitMq for inter-services communication.
- Developed the Data Export feature to aggregate run data and export as XML.
- Explored Spring state machine for managing instrument's state, Docker and Linux for deployment.

Senior Software Engineer

June 2021 - Jan 2023

- Contributed in the development of **Lightcyler Software** as a Java-Angular Fullstack developer.
- Windows based desktop application built using Electron and shipped as an Installable.
- Implemented the Run profile module end-to-end from the UI to writing Rest APIs in the backend, a crucial requirement for performing diagnostic runs and their analysis.
- Used Plotlyjs to create the temperature profile. Worked with complex forms and validations involving a lot of edge-case scenarios. Wrote and debugged over 30,000 lines of code.
- Did POC and implemented the software update functionality. Created a Utility software for generating update patches for testing teams.
- Worked across modules implementing features, writing unit tests and refactoring code.

## EDUCATION

### IIT Bhubaneswar

Dual Degree with BTech & MTech in Mechanical Engineering *CGPA: 8.2*

June 2016 - May 2021

## TECHNICAL SKILLS

<b>Programming Languages:</b>	Java, JavaScript, TypeScript, HTML/CSS, SQL (Postgres), XML
<b>Developer tools:</b>	Eclipse, IntelliJ, VS Code, Postman, Linux
<b>Devops and Collaboration:</b>	Git, Bitbucket, Docker, Maven, Bash, NPM, JIRA
<b>Frameworks and Libraries:</b>	Spring boot, Angular, React JS, Spring Batch, Spring StateMachine, JPA, Hibernate, Rabbit MQ, Electron, Plotly, Angular Material

## PROJECTS

### **Rain/no-rain classification** | *Machine Learning, Python, Scikit-learn, ANN, Random Forest, BTech Project*

- Used artificial neural network (ANN) and Random Forest algorithms to train Radiometer brightness temperatures over rain/no-rain cases.
- Significantly improved performance with an F1 score of 0.65, surpassing the conventional rain profiling algorithm (F1: 0.59).
- Published the findings in *Remote Sensing Application* journal.

### **Time Tracker** | *Java, CLI*

- Created a CLI-based time-tracking application using Java.
- Users can track the time spent on tasks, categorize them and get a summarized report.

### **Word Sudoku** | *Angular, Dictionary API, Netlify*

- Developed a pure UI based creative word game using Angular where user needs to fill the entire board ensuring no valid word gets formed. Deployed the application on Netlify.
- Integrated with the Dictionary API to show word meanings.
- Implemented a scoring system based on the time taken to complete the board successfully.

## AWARDS AND RECOGNITION

### ERS Innovation Champion Award

HCL Technologies

Recognized for implementing the Run profile module in our project, the very first and a crucial one in doing PCR research, a critical business requirement.

### MCM Scholarship

IIT Bhubaneswar

Consistently awarded the Merit-Cum-Means scholarship for my good academic performance in college.