

Prabhudatta Mohapatra

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Education

National Institute Of Technology, Rourkela,

July 2018 – May 2022

B. Tech. in Electronics and Instrumentation Engineering, CGPA: 8.15/10

Experience

Software Engineer, Barclays – Pune, India

August 2022 – Present

- Development of a comprehensive, **single-page Angular application** for all Barclays trade monitoring activities, serving as a one-stop solution for market risk management. Enhanced Performance by **reducing latency by 50%** compared to the previous limits management system. Utilized **SCSS** for modern and maintainable UI.
- Integrated daily and interval-based trading data using **ag-grids and Angular charts**, enabling real-time insights.
- Engineered the Risk management **Excel Toolkit using C#, including an Add-In, macro-enabled template (xlsm), and user-defined functions(using VBA)**, enabling **efficient querying of up to 1 million** position, limit, and excess data points. Accelerated Performance by delivering a tool that is **70% faster than its predecessor**.
- Developed a high-performance data service utilizing **Java, Spring Data JPA, Spark, and Scala** to fetch, process, and load **CSV files containing 10 million data points from UNIX file sources into Oracle database every 30 minutes with error handling/retries**, ensuring seamless data flow and robust system performance.
- Implemented the **JBoss upgrade** for an IVR application, **reducing call drops and errors from 3% to 0.7%**.
- Managed a team and contributed to the development of **Virtual Office, a React and Node app**, simulating office environment with features like **map navigation, collaboration rooms, chat, calls, and secure login**.

AI/ML Trainee, Hex N Bit – Remote

Jun 2021 – Jul 2021

- Acquired expertise in various supervised and unsupervised machine learning models, training multiple models for car model classification with labelled data, and comparing their performance metrics.

Skills

Programming: Java, JavaScript, TypeScript, C/C++, Python, C#, Go, HTML, CSS, SQL

Framework and Libraries: Angular, React, Spring, Hibernate, .NET, Backbone, JQuery, Bootstrap, Vite

Others: Git, Node, AWS/Azure(Certified), Jenkins CI/CD, GenAI(GPT), Agile Methodology, Testing, REST APIs

Projects

Simplified-Jira

[Code](#) | [Live](#)

- Developed **Simplified Jira**, a full-stack project management tool for managing projects, tasks, and team collaborations with role-based access control. Built with React, Node.js, Express, MongoDB, and Material-UI for a responsive UI. Key features include project/issue management, user roles, and secure API integrations.

History-Search

[Code](#) | [Live](#)

- Developed a **single-page React application using Vite** to search for historical events and figures, integrating two public APIs. Users can search across two dedicated pages or get combined results on the home page.

Coding Contests Schedule

[Code](#)

- A **Chrome extension developed to provide real-time schedules** for current and upcoming coding contests. The extension fetches data from API exposed by clist.by, offering a consolidated view of all coding competitions and their timings. The extension includes redirections to the contests and an option to add events to Calendar.