

Hritik Pathak

Software Developer | <https://www.linkedin.com/in/hritik-pathak-0500b3225/>



hritikpathak15@gmail.com



+91 9561964741



github.com/Pathak1511

Experience

Software Developer | Depronto Infotech

August 2024 - Current

- Led strategic meetings with five stakeholders to define business requirements and developed tailored solutions using **React** and **JavaScript**, enhancing functionality and client satisfaction.
- Redeveloped and optimized **IPROP (ICICI Prudential Return of Premium)**, **IPS (ICICI IProtect Smart)** and **HLV (Human Life Value) Calculator**, driving operational improvements.
- Reduced API calls for IPROP by 50% (from 20 to 10), resulting in a significant improvement in performance and user experience.

Software Developer Intern | NimbleWork

April - August 2024

- Contributed to the development of SwiftKanban product as part of an 18-member team over 4 months.
- Resolved response data errors in the Tour Trip feature, improving load times by 40% and enhancing user experience, boosting retention rates.
- Engineered JUnit test solutions to address sorting inconsistencies in the people list on the product dashboard, improving accuracy and reliability by ensuring 100% error-free sorting in production.
- Write a backend solution to delete attachments older than 1 month, while optimizing memoization in React to minimize component re-rendering.

Project

Codeflow - Real Time Collaborative Code Editor | [link](#)

January-March 2024

- Applied the mutual exclusion principle to identify delta changes in a file or codebase, notifying the owner to accept or reject the changes.
- Integrated **Redux Persist** to ensure smooth user experiences, reducing load times and increasing session retention by 30%.
- Implemented a 2 mode application supporting development (HTML, CSS, JS) and coding (C++, Java, JS, Python), ensuring robust language support.

NPM Package - patexec | [link](#)

January 2024

- Designed a custom **NPM package** to execute and retrieve outputs for code snippets, leveraging Docker to run code in a containerized environment, reducing execution waiting time by 50%.
- Architected a microservice architecture using **Docker** to make 10 containers to handle code execution for multiple programming languages, including Java, C++, and JavaScript, optimizing resource allocation and scaling capabilities.

Publication

- Co-authored and published a research paper titled "**Codeflow: A Real-Time Collaborative Code Editor**" on **IEEE Xplore**.
- Access the paper [here](https://ieeexplore.ieee.org/document/10617308) (<https://ieeexplore.ieee.org/document/10617308>).

Co-Curricular

- Excelled in the initial two rounds of the IICC Coding Championship conducted by AICTE.
- Tackled over 500 complex data structure and algorithm challenges on platforms such as [Leetcode](#) and [GFG](#).

Skills

- HTML, CSS, JavaScript, jQuery, React.js, Next.js, Node.js, MongoDB, SQL, Spring Boot, Git.

Education

Mumbai University

July 2020- May 2024

- Bachelor of Engineering (Data Science)
- CGPI : **9.10**
- Relevant coursework: Data Structures, Algorithms, Machine Learning, Database Management Systems.