

# RHUSHABH MADURWAR

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## EDUCATION

**University of Southern California, Los Angeles, USA** | *MS Computer Science* Jan 2024 - Dec 2025  
*Coursework:* Analysis of Algorithms, Web Technologies, Advanced Data Stores, Foundation of Data Management, Information Retrieval, Advanced Mobile Devices and Game consoles, Security Systems

**Savitribai Phule Pune University, India** | *BE(Computer Engineering & Data Science)* Aug 2019 - May 2023  
*Coursework:* OOPs, Software Engineering, Data Structures, DBMS, NLP

## SKILLS

|                                   |   |
|-----------------------------------|---|
| <b>Programming Languages:</b>     | Python, Swift, SQL, Kotlin, HTML, CSS, Java, C#                                   |
| <b>Web &amp; Databases:</b>       | React, Typescript, Firebase, Flask, Node.js, MongoDB, MySQL, Postgres             |
| <b>Frameworks &amp; Cloud:</b>    | SwiftUI, Tailwind CSS, Flutter, Springboot, Hadoop, REST, AWS(EC2, DynamoDB), GCP |
| <b>Other &amp; OS:</b>            | Postman, Unity, Xcode, Git, Jira/Confluence, Azure DevOps, Linux, MS Office       |
| <b>Data Science and Analysis:</b> | Statistics, Machine Learning, Tableau, NLP, LLM, Web Scraping, Data Analytics     |

## EXPERIENCE

**Application Developer Intern - .NET, Microsoft Dynamic 365, C#, Javascript** May 2025 - Aug 2025  
**Hudson Advisors L.P.** New York, USA

- Built a Tax Compliance Tracker using **.NET and Blazor UI**, enabling efficient management of compliance deliverables.
- Created an end-to-end implementation of a **Microsoft Dynamics 365 CRM platform** tailored to manage relationships and deal flow with Bond Investors and Originators.
- Migrated **eBAM software application to FIS's cloud**, optimizing infrastructure costs and ensuring support continuity.

**Student Developer - Typescript, React, MongoDB, RestAPI, Python** May 2024 - Present  
**University of Southern California** Los Angeles, USA

- Led a cross-functional team to develop a **real-time integration log tracking system** for Assetworks-Workday data flows, **reducing issue resolution time by 40%**.
- Architected and developed a **full-stack internal web dashboard** from scratch using **React, Node.js, Express, and MongoDB** to monitor integration logs between AssetWorks and Workday .
- Programmed scripts to automate daily API data updates, ensuring APIs remain up to date with new data while **reducing manual data insertion and update time by 50%**, improving accuracy and efficiency.
- **Completed Data migration, API migration and API testing** processes, increasing API performance by 25%.

**Software Engineering Intern - Python, Selenium, Kafka** Jul 2022 - Jun 2023  
**PTC.Inc** Pune, India

- Developed **Python automation scripts** leveraging **Selenium, BeautifulSoup, and Kafka** for Help Center web pages, optimizing content update pipelines and reducing manual effort by 75%.
- Designed and implemented a Kafka-based event-driven architecture for processing real-time updates to Help Center content, ensuring low-latency and high-throughput data synchronization.

## PROJECTS

**Trie module for DuckDB - C++ , DuckDB, SQL**

- Advanced string prefix matching in DuckDB by implementing a trie module prototype, **achieving 12% improved efficiency** for string filtering and prefix matching queries.
- Conducted testing on datasets ranging from **10k to 100k records** under various conditions .

**Stock Trading and Digital Wallet iOS App - Typescript, SWIFT UI, React, Node.js, MongoDB, RestAPI**  
[\[Github Link\]](#) [\[Project Video Link\]](#) [\[Project Link\]](#)

- Built a cross-platform stock trading and portfolio analysis app, **developing a SwiftUI iOS app and a MERN stack web app with Finnhub APIs** for real-time stock data and MongoDB for portfolio management.
- Implemented portfolio tracking, virtual trading, and interactive financial visualizations **using HighCharts, WebKit (iOS), and React (Web)**.

## PUBLICATIONS

- Digitization of Physical Notes: A Comprehensive Approach Using OCR, CNN, RNN, and NMF [\[Link\]](#)
- Digitizing Notes using Optical Character Recognition and Automatic Topic Identification and Classification using Natural Language Processing [\[Link\]](#)
- Copyright for Sentiment Analysis of Financial News [\[Link\]](#)