

# Aditya Tipre

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## EDUCATION

### Purdue University

West Lafayette, IN

*B.S in Computer Engineering, Minor in Mathematics*

### Relevant Coursework

*Object Oriented Programming (Java), C - Programming, Multi-variable Calculus, Linear Algebra, Real Analysis, Discrete Mathem*

### Clubs

*Purdue Space Program: Liquids Team Member, Purdue Math Club, Boiler Blockchain*

## EXPERIENCE

### - Software Engineer Intern

June 2024 – August 2024

*Optimal Strategix Group - OSG*

*Remote*

- Developed a comprehensive web scraping pipeline using **Beautiful Soup** and **Selenium** to extract reviews and discussions from medical forums, Reddit, review sites, and news articles.
- Designed and implemented a robust data pipeline in **MongoDB** for collecting, cleaning, and storing scraped data.
- Utilized LLMs and open-source models for Named Entity Recognition (NER) to identify domain-specific entities, and conducting sentiment analysis at both sentence and aspect levels using Hugging Face.
- Created dynamic **PowerBI** dashboards to transform raw data into actionable business intelligence insights.

### - PSP Liquids: Back End Developer

August 2023 – May 2024

*Purdue Space Program: A SEDS Chapter*

*West Lafayette, IN*

- Developed a React component, PSPieChartPlugin, to integrate real-time data updates with a WebSocket server.
- Established a WebSocket connection to receive data, parsed JSON messages, and triggered listeners based on unique identifiers.
- Optimized real-time data handling with **React.js** and **TypeScript**, streamlined configurations, and enhanced communication between rocket components, achieving a **15%** increase in system reliability.

## PROJECTS

### Marketplace | *Java, Git*

- \* Utilized object oriented concepts and concurrency to build a marketplace application for merchants and buyers. Facilitated the creation of white labelled stores and customer support communications.
- \* Used File reading techniques to utilize CSV files to be utilized by sellers to both import and export products
- \* Programmatically parsed CSV files to enable the batch upload of products for merchants.
- \* Enabled CRUD operations for merchants on their respective products.
- \* Created user workflows for merchants and delegated tasks amongst the project team.

### Landing Page | *HTML, CSS, JavaScript*

- \* Created a fully responsive, personal website using HTML, CSS, and JavaScript, showcasing professional experiences, projects, and current endeavors.
- \* Implemented Google Tag Manager to track website performance and gather insights on user interactions, optimizing site content based on analytics data.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, TypeScript/JavaScript, Latex

**Frameworks:** React, Node.js, MySQL, MacOS, Linux

**Developer Tools:** Git, Docker, Google Collaboratory, VS Code, Visual Studio, IntelliJ, Eclipse

**Libraries:** NumPy, Matplotlib, pyTorch, OpenCV, TensorFlow, Gradio

## SOFT SKILLS

**Languages Spoken Fluently:** Hindi, Marathi, English