

# Rajas Yardi

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## EDUCATION

### Syracuse University

Master of Science in Computer Science, GPA: 3.6/4.0

Syracuse, NY

08/2023 – 05/2025

**Relevant Coursework:** Design and Analysis of Algorithms, Operating Systems, DBMS, Machine Learning.

### Vishwakarma Institute of Technology

Bachelor of Tech in Computer Engineering, GPA: 8.5/10

Pune, India

08/2019 – 05/2023

**Relevant Coursework:** Web Development, Object Oriented Programming, Cloud Services

## PROFESSIONAL EXPERIENCE

### Excellerate Pvt. Ltd

Pune, India

#### Software Intern - Java/Spring-Boot

06/2022 – 12/2022

- **Developed and deployed** a Telegram Bot for local storefronts, introducing quick actions, cart functionality, wishlists, and personalized suggestions to enhance customer engagement and streamline order placement.
- **Integrated** Stripe payments and order tracking, leveraging NLP models to improve search accuracy, all within the SDLC framework.
- Collaborated in a 3-member team using Java and Spring Boot, focusing hands-on development efficiency and best practices.

### Micromate Computer and Peripherals Pvt. Ltd

Pune, India

#### IT Intern - Hardware/Troubleshooting

06/2021 – 08/2021

- Managed hardware diagnostics, repairs, and component replacements for over 200 computers and laptops, reducing downtime by 25% and restructuring device reliability, supporting seamless operations for a team of 50+ users.
- Set up and maintained LAN/WAN networks, troubleshooting technical issues to hone performance and enhance system stability.
- Devised strong networking fundamentals through hands-on configuration and maintenance of data communication systems.

## PROJECT EXPERIENCE

### Portfolio Website | React, Node, Tailwind

12/2024 – 01/2025

- Link - [Website](#)
- Developed a modern, responsive personal portfolio in TypeScript using Vite and React, featuring smooth GSAP animations and an interactive UI.
- The site effectively showcases my projects, skills, and extracurricular achievements with a polished design.

### Laptop on Rent Website | Spring, Java, HTML, CSS, JS, SQL, Thymeleaf

09/2024 – 01/2025

- Link - [Website](#)
- **Developed** a full-stack website using **Java** and **Spring Boot**, with a **SQL**-based database to streamline data updates and ensure reliable data accessibility.
- Implemented a secure administrative interface to manage daily offers and promotions, significantly reducing manual workload and enhancing update accuracy.
- Created a responsive, user-friendly frontend using JavaScript, HTML, and CSS, resulting in a more engaging design and improved user experience.

### FinanceFlow Mobile App | React Native (Expo) | Java Spring Boot | H2 Database | Axios

01/2025 – 02/2025

- Developed a **personal finance management** mobile app with **React Native (Expo)** and a **Java Spring Boot** backend.
- Implemented **user authentication**, **transaction logging**, **multi-language support**, and **dark mode**, then deployed to **Google Play** using **EAS Build**.
- Additionally, the app features dynamic spending analytics and robust offline data handling to ensure a seamless user experience.
- **Established** a **CI/CD pipeline** with **GitHub Actions**, automating build and deployment for consistent, efficient releases.

### Flight Delay Prediction | Gradient Boosting, XGBoost, Random Forest, ML

02/2024 – 05/2024

- Compiled a predictive model utilizing Random Forest and XGBoost to anticipate flight arrival times, achieving over 80% accuracy and enhancing scheduling reliability.
- Streamlined data preprocessing and feature selection for flight and weather datasets, diminishing overfitting by 15% and increasing model accuracy by 10%, ensuring more reliable predictions for operational decision-making.

### Hate Speech Detection | Python, ML, NLP

10/2021 – 02/2022

- Developed an **SVM model** with **Tf-Idf** to detect hate speech and specific categories, achieving a **classification accuracy of 85%**.
- Implemented **Logistic Regression** for multi-class classification, improving precision and recall by **20%** through optimized feature selection.
- Demonstrated expertise in building end-to-end machine learning pipelines, including data preprocessing, splitting, training, and testing on datasets of up to 50,000 rows.
- Revamped model accuracy by 10% through iterative tuning and optimization, ensuring robustness and reliability for deployment in a production environment.

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, SQL.
- **Databases:** PostgreSQL, MySQL, H2.
- **Mobile App:** React Native (Expo), react-native-paper, Axios, React Navigation, and i18next
- **Web Development:** Spring Boot, Spring Security, Node, React, HTML, CSS, Bootstrap, REST API, Thymeleaf, Spring Data JPA, Tailwind CSS, JWT.
- **Cloud/DevOps:** Docker, Kubernetes, AWS (EC2, S3, Lambda, RDS), Microservices.
- **Frameworks & Libraries:** TensorFlow, Keras, Pandas, scikit-learn, matplotlib, numpy, Hibernate.
- **Tools:** Postman, Git, EAS Build.

## CONFERENCE/RESEARCH PAPERS

**Publication:** *Journal of Failure Analysis and Prevention (2023) - Solar Panel Damage Detection and Localization of Thermal Images.*

- Implemented the **YOLO FIRI algorithm** for solar panel damage detection, increasing accuracy by expanding the training dataset from 400 to 1,400 images through data augmentation. Explored future integration with drones equipped with thermal cameras for automated inspections.

**Gary Merdsen Travel Awards in HCI - ACM SIGCHI (Mar 2021).**

- Virtually attended the Asian CHI Symposium.

## LEADERSHIP

- **JMA Wireless Dome Concessions Supervisor (2023- Current)**
- **People's Assistance Social Welfare and Development Committee SW&D Saarthi Volunteer (Nov 2021)**

Syracuse, NY

Pune, India