

ROHAN PADHYE

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PROFESSIONAL SUMMARY

Detail-oriented and results-driven Software Developer with a strong foundation in programming, data science, and cloud technologies. Proven track record in designing, developing, and deploying scalable applications across diverse domains, from education tech to IoT & fraud detection. Adept at collaborating in cross-functional teams, mentoring peers, & delivering innovative solutions that improve performance, usability, & efficiency.

EDUCATION & CERTIFICATIONS

MSc Computer Science (GPA: 4.0) – Western University, Canada (Sep 2023 – Aug 2024)

B.E. Information Technology (GPA: 3.8) – Mumbai University, India (Jul 2019 – Jun 2023)

AWS Cloud Technical Essentials – AWS, Coursera (July, 2025) ([View Certificate](#))

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, SQL, HTML, CSS, React
 - **Data Science & ML:** Pandas, NumPy, Scikit-Learn, Seaborn, Data Mining, Visualization, Classification, Regression, Clustering
 - **Backend & Databases:** Flask, Django, Firebase, MySQL, WebSockets
 - **DevOps & Cloud:** AWS (EC2, S3, Lambda), Docker, Podman, Jenkins, GitHub Actions
 - **Tools:** VS Code, JIRA, Figma, Excel, Power BI, Tableau
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PROFESSIONAL EXPERIENCE

Wireless Consultant – Staples Canada | London, ON (Oct 2023 – Mar 2025)

- Provided personalized wireless plan and device recommendations based on customer usage patterns, budget, and technical needs, helping customers make informed decisions in a competitive market.
- Consistently surpassed monthly sales targets by 15–20% through proactive upselling, cross-selling, and effective follow-up with repeat customers.
- Assisted customers with end-to-end device setup, including SIM activation, data transfer, email configuration, and app installation, ensuring smooth onboarding for both personal and business clients.
- Troubleshoot device and connectivity issues on the spot, resolving over 90% of cases without escalation.
- Maintained up-to-date knowledge of mobile carriers, device specifications, promotional offers, and competitive market trends to ensure recommendations were always relevant and value-driven.
- Collaborated with sales associates and management to optimize workflow, improve store KPIs, and maintain a customer satisfaction rating above store average.

Teaching Assistant – Western University | London, ON (Jan 2024 – May 2024)

- Led weekly lab sessions for over 100 undergraduate students in Java programming, guiding them through concepts like object-oriented programming, algorithm analysis, recursion, and data structures.
- Provided one-on-one assistance during labs, helping students debug code, optimize solutions, and strengthen their problem-solving skills.
- Reviewed and graded assignments, ensuring fair evaluation and offering detailed feedback to help students improve code efficiency and readability.
- Supported academic integrity by monitoring lab submissions and ensuring adherence to coding standards and best practices.

Frontend Developer Intern – Coursenator | Mumbai, IN (Mar 2022 – Jul 2022)

- Designed and developed reusable React components to standardize UI elements and improve development efficiency across the platform.
- Integrated multiple backend APIs using React Query, reducing redundant network requests by 20% and improving page load speeds.
- Implemented responsive layouts using Tailwind CSS, ensuring seamless performance across desktop, tablet, and mobile devices.
- Optimized data fetching processes with Axios to decrease API latency and improve user experience.
- Collaborated closely with backend engineers to refine API endpoints, enabling smoother data flow and reducing client-side complexity.
- Participated in weekly Agile sprints, contributing to feature planning, testing, and deployment.

Software Developer Intern – Virtual Labs, IIT Bombay | Mumbai, IN (Jul 2021 – Dec 2021)

- Developed a Python-based educational web application for interactive math problem generation using Flask, NumPy, and SymPy.
- Created a dynamic problem-generation engine that could produce multiple variations of math questions for automated practice.
- Built intuitive front-end interfaces, ensuring accessibility for high school and undergraduate students with varying technical skills.
- Deployed the application using Docker for containerization and Heroku for cloud hosting, enabling easy scalability and maintenance.
- Integrated Pandas for dataset manipulation and Matplotlib for interactive graph plotting, enhancing the learning experience through visualizations.
- Worked in close coordination with educators to align software functionality with curriculum needs.

Web Editor – Computer Society of India, VESIT Chapter | Mumbai, IN (May 2020 – Jun 2021)

- Designed, developed, and maintained the organization's official website using ReactJS, Tailwind CSS, and Vercel hosting.
- Managed site updates, event pages, and member portals, ensuring accurate and timely information for over 500 members.
- Coordinated with the events team to promote workshops and hackathons, increasing participation rates by 30%.
- Organized and delivered workshops on Machine Learning, Web Development, and DevOps, training 120+ students in hands-on technical skills.

PROJECT HIGHLIGHTS

MiGrror Live Migration Framework ([View On GitHub](#))

- Developed a container live migration system using CRIU, Podman, and Python to reduce downtime by **20%** for latency-sensitive edge computing workloads.
- Implemented incremental checkpointing and pre/post-copy migration strategies to minimize service disruption.
- Tested on Raspberry Pi and university servers, enabling portability for IoT devices with limited resources.
- **Tools & Tech:** *Python, CRIU, Podman, rsync, watchdog, Bash scripting.*

Smart Door Lock (Facial Recognition) ([View On GitHub](#)) ([View on IEEE](#))

- Designed a secure, automated door access control system using Raspberry Pi, Python (OpenCV), and Flask backend.
- Integrated SQLite database for storing user profiles and real-time access logs with >95% recognition accuracy in varying lighting conditions.
- Published in **IEEE** for contributions to IoT-based security; presented at ICEPE 2023, NIT Meghalaya.
- **Tools & Tech:** *Raspberry Pi, OpenCV, Flask, SQLite, HTML/CSS, JavaScript.*

Bank Fraud Detection System ([View On GitHub](#))

- Built a fraud detection pipeline achieving **96.78% accuracy** using Decision Tree classification on a financial transactions dataset.
- Preprocessed 250,000+ records with feature engineering to detect anomalies and reduce false positives.
- Secured **1st place** at Syberthon Hackathon for delivering a scalable and high-performance model.
- **Tools & Tech:** *Python, Pandas, NumPy, Scikit-Learn, Matplotlib.*

FMCG Market Analysis Tool ([View On GitHub](#))

- Developed a Streamlit web app for demand forecasting using Random Forest & Linear Regression models with >85% accuracy.
- Built SQL database to track inventory, sales, and customer analytics for 5+ product categories.
- Designed interactive dashboards to visualize sales trends and optimize restocking decisions.
- **Tools & Tech:** *Python, Streamlit, SQL, Plotly, Pandas, Scikit-Learn.*

Earth Hour - Eco-Friendly Marketplace ([View On GitHub](#))

- Led the development of a full-stack marketplace for eco-friendly products, boosting scalability and increasing user engagement by **35%** through optimized ReactJS components and efficient backend architecture.
- Implemented real-time data storage with Firebase Firestore, secure payments via Razorpay, and robust authentication using Firebase Auth.
- Collaborated in an Agile environment using Git for version control and deployed using Node.js backend services.
- **Tools & Tech:** *ReactJS, TMDB API, Firebase, Node.js, CSS Modules, Tailwind CSS, Redux, React Router, Firebase Auth.*

Library Management System ([View On GitHub](#))

- Created a desktop application to manage 1,000+ books and 300+ members with real-time due date alerts and fine calculation.
- Implemented MVC architecture and used Log4j for logging and Apache Commons for utilities.
- **Tools & Tech:** *Java, JavaFX, Swing, MySQL.*

LEADERSHIP & ACHIEVEMENTS

- Technical Manager, E-Cell VESIT – Led events for 600+ students including hackathons and seminars.
- Volunteer – Supported COVID-19 awareness and educational initiatives for underprivileged communities.
- Awards – 1st place, Syberthon Hackathon; 2nd place, Project DeepBlue Hackathon.