

SWAYAM SIDDHARTH WAGHCHAURE

Software Engineer | Front-End Development & Applied ML

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PROFESSIONAL SUMMARY

Engineering undergraduate in Mumbai with hands-on experience building web, mobile, and TV applications. Strong in React, React Native, Next.js, TypeScript, and Python, with applied machine learning experience in classification, model evaluation, and threshold tuning. Ships complete user flows, writes tests, and handles the last mile: empty states, failure cases, and release checks.

EDUCATION

Maharashtra Institute of Technology (MIT), Mumbai

Engineering Undergraduate - Computer / IT

Expected Bachelor's Degree: November 2030

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, HTML, CSS, C

Frameworks & Libraries: React 19, React Native 0.83, Next.js 16, Tailwind CSS 4, Jest, Testing Library

Platforms & Tools: Amazon Kepler 4.0, Vega OS, Git, GitHub, ESLint, Linux (Fedora)

Data & ML: pandas, NumPy, scikit-learn, HistGradientBoosting, Logistic Regression, Truncated SVD, TF-IDF, F1, confusion matrix, threshold tuning

Product & Design: UI/UX design, interaction design, D-pad and keyboard accessibility, responsive layouts, unit testing, team leadership, technical writing

PROJECTS

YourNextBinge - TV-First Recommendation App | 2026

React 19.2, React Native 0.83, Amazon Kepler 4.0, TypeScript 5.8, Jest

- Built a 960x540 D-pad-only app for Amazon Vega / Fire TV that turns 83 titles and 7 moods into a five-item shortlist with a one-line reason for each pick.
- Designed a deterministic recommender with weighted scoring and a fixed relaxation ladder; the UI never shows an empty list and makes zero network calls.
- Wrote Jest tests for scoring, relaxation order, navigation, and rendering; kept catalog and mood coverage under test.

GitHub: github.com/swayamhere/YourNextBinge

Rogue Protocol - Fault-vs-Noise Classifier | 2026

SMLRA x Abhiyantriki 2026 | Team of Four | Python, pandas, scikit-learn

- Shipped a classifier for 3,000 unlabelled ship logs; achieved 0.6832 validation F1 at a 0.54 threshold, +0.081 over the Logistic Regression floor (team result).
- Owned submission integrity as team captain: threshold sign-off, checker-gated CSV generation, upload log, and final submission card; every upload passed the TRANSMISSION VALID check.
- Led Round 2 orchestration across triage, memory, scheduling, and notifications; generated handover and timeline reports from real traces.

Quiet Check-in - Night-Travel Safety App | 2026

Next.js 16.3, React 19, Tailwind CSS 4, TypeScript

- Built a local-first web app that stays silent while a trip is on track and alerts a contact only when a check-in is missed.
- Designed a five-step flow across six transport modes with day/night safety scoring, route comparison, checkpoints, and live trip state.
- Extended a v0-generated base into a complete demo with no backend; the full flow runs on local data.

ADDITIONAL PROJECTS

Campus 2050 - VR Campus Tour Concept | 2026

- Wrote the stall concept and pitch for a VR tour of the college reimaged in 2050; designed the boarding-gate set and judge narrative.

Pi Home Server - Self-Hosted Cloud Kit Concept | 2026

- Designed a plug-and-play Raspberry Pi cloud-kit concept and campus pre-order flow; wrote the Apps Script form with email and phone validation.