

RAHUL T

Full-Stack & AI/ML Developer | Node.js · React · Python · Swift

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SUMMARY

B.E. CSE graduate with hands-on experience building production-grade full-stack and AI/ML applications. Proficient in React, Node.js, Python, and Swift with a strong focus on clean architecture, security, and testing. Proven ability to ship end-to-end projects independently — from database design to CI/CD deployment.

EDUCATION

B.E. Computer Science & Engineering — Jeppiaar Engineering College, Chennai 81.5% | Jul 2021 – Aug 2025

12th — St. Joseph of Cluny Matric Hr. Sec. School, Tindivanam 80.5% | Feb 2021

PROJECTS

AllKitty — Production-Grade Media Processing Platform

Node.js · TypeScript · Bull/Redis · SQLite · Docker · Jest · GitHub Actions

- Architected an async media downloading service (YouTube, TikTok, Twitter/X) with Redis-backed Bull queue, real-time job polling, and automatic file cleanup scheduler
- Hardened with Zod input validation, Helmet HTTP headers, and rate limiting; 61% test coverage via Jest + Supertest with full CI/CD on GitHub Actions and Docker Compose deployment
- Built zero-dependency animated Vanilla JS frontend with live queue progress, toast notifications, download history panel, and settings UI — all backed by SQLite persistent storage

TopX AI Resume Analyzer

Python · Flask · scikit-learn · NLP · Socket.IO · JavaScript

- Built an NLP-powered resume analyzer with TF-IDF skill extraction predicting top company matches via ML models across 30+ job roles
- Delivered real-time WebSocket progress streaming, animated score gauges, skill gap analysis, and one-click PDF export
- Designed modular Flask REST API with clean separation of NLP pipeline, ML inference layer, and frontend delivery

PIXS — Native macOS Productivity App (Open Source)

Swift · SwiftUI · AppKit · UserNotifications · Gemini 2.5 Flash API

- Engineered a menu-bar macOS app with fast note-taking, persistent task reminders via UserNotifications framework, and AI-powered contextual help via Gemini 2.5 Flash REST API
- Built dark-mode-first responsive UI using SwiftUI + AppKit interop, optimised for low-footprint quick-access menu-bar workflow

SmithWorks — Full-Stack Freelance Marketplace

React · Node.js · MongoDB · Socket.IO · JWT · AWS EC2

- Developed role-based platform with client job posting, freelancer gig listings, proposal bid workflows, and modular Express REST API backend
- Integrated real-time Socket.IO chat, JWT authentication, and deployed to AWS EC2 with Nginx reverse proxy and PM2 process management

EXPERIENCE

AI Intern — TechSaksham (Microsoft & SAP / AICTE Initiative)

Nov 2024 – Dec 2024 | Remote

- Built an NLP-based spam email classifier; presented live prototype to Microsoft & SAP industry mentors
- Delivered full project documentation including problem statement, literature survey, and implementation report

TECHNICAL SKILLS

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|-------------------|---|
| Languages: | Python, JavaScript (ES2022+), TypeScript, Swift (SwiftUI + AppKit), SQL |
| Frontend: | React, Vanilla JS, HTML5/CSS3, Figma |
| Backend: | Node.js, Express.js, REST APIs, Socket.IO, Bull/Redis, Zod |
| Databases: | MongoDB, SQLite, Sequelize ORM |
| AI / ML: | scikit-learn, NLP (TF-IDF, tokenisation), Gemini API |
| DevOps: | Docker, GitHub Actions, AWS EC2, Nginx, PM2, Vercel, Postman, Git |

CERTIFICATIONS

- Web Development Bootcamp — Udemy (ID: UC-d2a4dc05-de0b-4126-b02e-d003dff20c90)
- Google Analytics Certification — Google