

E Matruprasad Achary

Full Stack Developer | java | React Native · Next.js · TypeScript | AI Integration | AWS · Docker |
Mobile & Web | Agentic AI

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with hands-on experience building scalable web, mobile, and AI-powered applications using Java, Spring Boot, React Native, Next.js, TypeScript, and AWS. Completed B. Tech in Computer Science (CGPA: 8.42) with five internships across software engineering, cybersecurity, cloud AI, machine learning, and Android development. Built multiple production-grade projects including legal-tech, recruitment, fintech, geofencing, and AI automation platforms with expertise in REST APIs, cloud deployment, databases, authentication, and modern application architecture.

KEY ACHIEVEMENTS

- Architected **NyayaX**, a legal services super-app with five user roles, real-time chat, Aadhaar eKYC, mediation, Razorpay payments, and OTA updates from a single React Native codebase.
- Designed a **33-entity Prisma/PostgreSQL** database for **PropHire**, supporting AI-powered recruitment, hiring workflows, e-signatures, onboarding, and workforce analytics.
- Built **Palmrit**, a cross-platform astrology platform (Expo, Next.js, Bun/Elysia) with AI analysis, AWS S3, Razorpay, Docker, Nginx, and EC2 deployment.
- Developed an **AI job-hunt automation platform** that parses resume, aggregates jobs from multiple sources, scores candidate-job fit using Gemini AI, and generates recruiter outreach.
- Engineered a **client-side video-to-PDF lecture converter** using HTML5 Canvas and Tesseract.js OCR for fast, privacy-first slide extraction.
- Completed a **Cyber Security Internship at IIT Jammu** and built a real-time **ARP Spoofing/MITM detection tool** for Windows with automatic gateway recovery and alerts.
- Maintained an **8.42 CGPA** while completing **five internships**, earning technical certifications, and independently delivering **10+ full-stack and mobile applications**.

TECHNICAL SKILLS

- ❖ **Languages:** Java, TypeScript, JavaScript, Python, SQL, Kotlin
- ❖ **Frontend:** React, Next.js, React Native (Expo), Tailwind CSS
- ❖ **Backend:** Spring Boot, Bun, Elysia, REST APIs, Microservices
- ❖ **Databases:** PostgreSQL, MySQL, SQLite, Prisma ORM, Drizzle ORM
- ❖ **Cloud & DevOps:** AWS (EC2, S3), Docker, Nginx, Vercel, CI/CD
- ❖ **AI & Integrations:** Gemini AI, Azure AI, Razorpay, Socket.IO, Tesseract OCR
- ❖ **Tools:** Git, GitHub, Swagger, Vitest

PROFESSIONAL EXPERIENCE

Full Stack Software Development Intern | Nexus Infotech, Berhampur | Dec 2025 – Present

- Developed scalable web and mobile applications using React Native, Next.js, Java, and TypeScript.
- Designed REST APIs, database schemas, and backend services for SaaS applications.
- Integrated authentication, payments, cloud storage, and real-time communication.
- Collaborated on full software development lifecycle from architecture to deployment.

Cyber Security & Ethical Hacking Intern, Indian Institute of Technology, Jammu. | Jun 2025 – Aug 2025

- Hands-on experience in ethical hacking and network security.
- Worked on MITM attack detection and mitigation techniques.

AI Azure Intern, Microsoft Initiative (Implemented by Edunet Foundation | Jun 2025 – Jul 2025

- Built AI solutions using Microsoft Azure services.
- Learned cloud-based AI workflows and deployment.

Machine Learning & Deep Learning Intern | PMEC | Jul 2024 – Aug 2024

- Developed machine learning and deep learning models using real-world datasets.
- Applied optimization and feature-engineering techniques to improve predictive performance.

Android Developer Intern | Internshala | Aug 2023 – Oct 2023

- Developed Android applications using Kotlin, XML, and Material Design principles.

PROJECT EXPERIENCES

Intraday Algorithmic Trading Platform

Tech Stack: Java 17, Spring Boot, Microservices, Apache Kafka, RabbitMQ, PostgreSQL, AWS, Docker, Kubernetes, React.js, Angular, ELK Stack, Grafana

- Architected and developed a real-time, event-driven algorithmic trading platform for identifying high-probability intraday trading opportunities.
- Designed distributed market analysis engines to detect bullish and bearish trading signals across multiple stocks.
- Built Kafka-based event processing and trade orchestration services for scalable, low-latency market data processing.
- Implemented multithreaded market monitoring, risk management, analytics dashboards, and trade execution workflows.
- Deployed containerized microservices on AWS using Docker and Kubernetes, with centralized monitoring and logging through ELK Stack and Grafana.

NyayaX - AI-Powered Legal Services Super-App

Tech Stack: TypeScript, React Native (Expo SDK 54), React 19, React Navigation (stack / bottom-tabs / material-top-tabs), Zustand, Axios, Socket.IO, Razorpay, Expo SecureStore, Expo Notifications, Expo Location, React Native WebView, Reanimated, EAS Build & Update

- Built a legal-services platform supporting Clients, Lawyers, Law Firms, Court Admins, and Super Admins from a single React Native codebase.
- Implemented appointments, case management, real-time chat, Aadhaar eKYC, mediation workflows, and Razorpay payments.
- Added AI-powered legal assistance, document analysis, e-signatures, and OTA deployments using Expo EAS.

PropHire - AI-Native Hiring & Workforce-Intelligence Platform

Tech Stack: TypeScript, Next.js 16 (App Router, Turbopack), React 19, Tailwind CSS v4, Prisma 6, PostgreSQL (Neon serverless), custom JWT sessions via jose, RBAC, Vitest

- Developed an AI-powered hiring platform with candidate, employer, and admin portals.
- Designed a 33-table PostgreSQL database using Prisma and implemented RBAC with JWT authentication.
- Built recruitment workflows including AI job descriptions, candidate pipelines, e-signatures, onboarding, subscriptions, and analytics.

AI JobHunter - Resume-to-Outreach Automation Platform

Tech Stack: TypeScript, Next.js 14 (App Router), Tailwind CSS + shadcn/ui + Framer Motion, Google Gemini (@google/genai), Neon PostgreSQL + Drizzle ORM, Vercel Blob, Upstash Redis, Zustand, React Hook Form + Zod, iron-session · OCR: pdf-parse, mammoth, Tesseract.js

- Developed an AI-powered job search platform that parses resumes, aggregates jobs, and scores candidate-job compatibility.
- Integrated OCR, Gemini AI, Redis, PostgreSQL, and multiple job APIs.
- Generated personalized recruiter outreach while maintaining compliance with platform policies.

Palmrit - AI Palmistry & Vedic Astrology Platform

Tech Stack: TypeScript · Mobile: React Native (Expo), Expo Camera · Backend: Bun, Elysia, Prisma, Google Generative AI (Gemini), AWS S3, JWT, bcrypt, Razorpay, Swagger · Web: Next.js, React Three Fiber / Three.js / Drei, GSAP, Framer Motion · Infra: Docker, docker-compose, Nginx, AWS EC2

- Built a cross-platform astrology application using React Native, Next.js, Bun, and Elysia.
- Implemented AI-based palm analysis, Kundali generation, AWS S3 storage, JWT authentication, and Razorpay payments.
- Containerized the backend using Docker and deployed on AWS EC2 with Nginx.

Nex Attender — Geofenced & Biometric Employee Attendance App

Tech Stack: TypeScript, React Native, Expo Router, Expo Location, Expo Local Authentication, Expo SecureStore, React Navigation, Expo File System, Jimp

- Developed a role-based employee attendance application with separate Admin and Employee portals using React Native and Expo.
- Implemented GPS geofencing, biometric authentication (Face ID/Fingerprint), secure login, attendance tracking, leave management, and profile features.
- Built admin modules for employee management, geofence configuration, leave approvals, and attendance reporting with secure REST API integration.

Lecture Slide Extractor - Client-Side Video-to-PDF Tool

Tech Stack: TypeScript, Next.js 15 (App Router), React 19, Tailwind CSS, HTML5 <video>/<canvas>, Tesseract.js (WASM in a Web Worker), pdf-lib, JSZip, optional Supabase, Vercel

- Built a browser-based application that converts lecture videos into searchable PDF notes without uploading data to a server.
- Developed automatic slide detection, OCR-based searchable PDFs, duplicate-slide removal, and multiple export formats including PDF, images, and Markdown.
- Added support for both local videos and YouTube screen-capture mode with an interactive review interface before export.

ARP Spoofing Detector & Mitigation (Windows)

Tech Stack: Python 3.x (Windows), pystray, Pillow, pytsx3, psutil, winsound, native ARP/networking utilities

- Developed a Windows desktop application that detects ARP spoofing and man-in-the-middle attacks by continuously monitoring gateway MAC addresses.
- Implemented real-time attack detection, attacker identification, audio/desktop alerts, and automatic ARP table recovery.
- Built a lightweight system-tray application with monitoring controls, event logging, and network recovery utilities.

EDUCATION

Sept 2022 –June 2026

B.Tech in Computer Science and Engineering,
Parala Maharaja Engineering College,
Berhampur, Odisha.
CGPA: 8.42 (up to 8th Semester)

2019 – 2021

Senior Secondary (XII), CHSE, Odisha,
Berhampur.
Percentage: 91.33%

2018 – 2019

Secondary (X), BSE, Odisha, Ganjam.
Percentage: 90.00%

CERTIFICATIONS

- Cyber Security & Ethical Hacking
- AI on Microsoft Azure
- Machine Learning & Deep Learning
- Android Development
- GitHub Training