PRATYAY AMRIT

Senior Software Engineer | Full-Stack Development | AI

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Summary

Skilled Senior Software Engineer with 6+ years of experience in developing scalable systems and full-stack AI products. Proven ability to translate complex requirements into user-centric solutions, demonstrated by leading the development of AI-driven platforms and high-throughput healthcare systems. Seeking to leverage expertise in product engineering to drive innovation and user impact at a product-focused company.

Skills

TypeScript · JavaScript · Python · Java · React · Next.js · Flask · Node.js · HTML5 · CSS3 · GSAP · OpenAI API · Tensorflow.js · CrewAI · MongoDB · Oracle SQL · AWS (S3/Polly) · GCP (Storage/DocAI/Speech)

Professional Experience

Deloitte
Mumbai, India

Senior Consultant
08/2018 - Present

Led development of large-scale Medicaid and public health systems, delivering high-performance, scalable solutions in production environments.

- Engineered and optimized Medicaid eligibility systems processing **$2.4B+ annually, achieving 97%+ development accuracy** through hierarchical code reviews and standardized testing, resulting in the elimination of build-cycle delays.
- Improved the monthly batch process (15-20k cases) that interfaces with federal systems like SSA, PEEV, MUSE, SOLQ, and DOR. The original 8-hour process was **improved by 4x** by refactoring a 10k-line file to eliminate redundant database queries via caching.
- Developed internal tools, including automated report generators (**saving ~3 hours of manual effort daily**) and a database object difference finder, which prevented potential production crashes.

Self employed
Remote, India

Freelance Web Developer
05/2017 - 06/2018

Individual Contributor on contract, working for small scale upcoming startups.

- Increased customer interaction by 20% by developing pluggable custom chatbot solutions with exit-intent marketing technology.
- Improved transcription accuracy by 15% by building a robust JavaScript-based transcription editor module.

Projects

StratChat
02/2025

Architected an AI-driven platform to generate product strategies via agent collaboration and document understanding. Designed event-driven workflows and backend coordination logic. **Tech:** Next.js, Python (Flask), CrewAI, OpenAI, TypeScript
[Demo] [Read More]

Audionomous
09/2024

Built a voice-controlled AI audiobook platform with wake word detection (TensorFlow.js) and real-time interaction using OpenAI + cloud APIs. Enabled hands-free navigation of documents and intelligent Q&A. **Tech:** Next.js, TypeScript, TensorFlow.js, OpenAI, AWS, GCP, MongoDB
[Demo] [Read More]

Live Transcription Editor
05/2017

Built a real-time web transcription editing tool with word-level navigation, speaker ID, export formats, and advanced playback controls to boost transcription editing productivity. **Tech**: JavaScript, HTML5, CSS3, WaveSurfer.js, SoX, PHP, JSON
[Try it live] [GitHub] [Read More]

Revels'17
03/2017

Created an interactive 3D web experience for a college fest using impress.js, GSAP, and SVG animations, with responsive design, mobile detection, and event-driven navigation. **Tech**: JavaScript, impress.js, GSAP, SVG, 3D transformations, responsive design.
[Try it live] [GitHub] [Read More]

… and more: [Snake Game] [Snake Bot] [Neuro Snake] [Minesweeper] [Minesweeper Bot] [Web Theremin] [Sad Paint]

Education

Manipal Institute of Technology

B. Tech., Computer & Communication Engineering
01/2014 - 12/2018