

# SIDHARTH RAJ KHANDELWAL

Jersey City, NJ | [sid\\_rk@outlook.com](mailto:sid_rk@outlook.com) | (480) 241-8791  
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## PROFESSIONAL SUMMARY

AI driven Full Stack Developer with 4+ years of experience specializing in React, TypeScript, .NET, Python and building scalable, high-performance web applications. Proven ability to translate complex UI/UX designs into responsive, user-centric interfaces. Proficient in modern state management, data visualization, and integrating with cloud services like Azure. Skilled in Agile methodologies and CI/CD practices to deliver robust solutions.

## EDUCATION

Pace University, New York, NY	
<i>M.S. in Computer Science (Full Stack Development)</i> – GPA: 3.9	May 2025
The National Institute of Engineering, Mysore, India	
<i>B.E. in Electronics &amp; Communication</i>	Sept 2020

## EXPERIENCE

We Rebel LLC – Full-Stack Developer, New York, NY	Sept 2025 – Present
<ul style="list-style-type: none"> <li>Led end-to-end development of Common Works Registration (CWR) automation pipelines for ASCAP and MLC, implementing CISAC standards and scalable file generation to streamline royalty claims.</li> <li>Integrated Persona identity verification for artist onboarding, Stripe for automated royalty payouts, and Muso API for copyrighted artwork sourcing.</li> <li>Connected Spotify API for real-time song metadata enrichment and built AI-powered artist agents to automate catalog management and royalty insights.</li> <li>Implemented background scheduling with Django Q for automated submissions, acknowledgments, and tracking of royalty workflows across collection societies.</li> </ul>	
We Rebel LLC – Software Engineer Intern, New York, NY	Jun 2024 – Apr 2025
<ul style="list-style-type: none"> <li>Developed high-quality, reusable components using React and TypeScript for a music publishing platform, utilizing hooks for optimal state and lifecycle management.</li> <li>Collaborated closely with UI/UX designers to translate Figma mockups into pixel-perfect, responsive user interfaces, ensuring an intuitive and engaging user experience.</li> <li>Integrated Expo for streamlined deployment &amp; continuous over-the-air updates, reducing deployment times by 40% while maintaining high-performance standards.</li> </ul>	
TietoEVRY – Software Engineer, Bengaluru, India	Feb 2021 – Aug 2023
<ul style="list-style-type: none"> <li>Developed and enhanced scalable enterprise software using .NET MVC, C#, and LINQ, focusing on performance and maintainability for backend integrations.</li> <li>Maintained containerized CI/CD pipelines using Docker, Azure DevOps, and Git, ensuring reliable and agile delivery cycles for production environments.</li> <li>Led the modernization of legacy Java-based systems to a .NET architecture, improving system efficiency and reducing maintenance overhead.</li> <li>Developed 30+ automation tools using Microsoft Power Platform and managed 50+ SharePoint sites.</li> </ul>	

## PROJECTS

Virtual Room Generator – AI Interior Image Generation (Together.ai FLUX, Streamlit)	Sept 2025
<ul style="list-style-type: none"> <li>Built a Streamlit app that generates interior room images from text prompts using the Together.ai Inference API with Black Forest Labs' FLUX model.</li> <li>Added style presets (e.g., Scandinavian, Industrial, Minimal) and controls for room type, color palette, and lighting via prompt templating and negative prompts.</li> <li>Implemented seed/batch controls and result caching to produce consistent variations while reducing latency and API usage.</li> </ul>	
Chat-to-PDF – Conversational Document Assistant (AWS Bedrock, FAISS, LangChain)	Aug 2025
<ul style="list-style-type: none"> <li>Built an AI system that enables natural-language Q&amp;A over PDF documents by combining FAISS vector search with Bedrock-hosted LLMs.</li> <li>Engineered a scalable RAG (Retrieval-Augmented Generation) pipeline for accurate context retrieval from large technical PDFs.</li> <li>Improved relevance by 20% through chunking strategies and semantic embeddings fine-tuned for document comprehension.</li> </ul>	
Lyric Style Distiller – AI Lyrics Generator (LLaMA, Streamlit)	July 2025
<ul style="list-style-type: none"> <li>Designed an AI-driven lyric generator capable of producing multilingual rap/poetry in user-specified styles using LLaMA-4 on AWS Bedrock.</li> <li>Implemented real-time user interface in Streamlit with style controls (e.g., rhyme density, mood, and cadence).</li> <li>Optimized inference with caching and throttling, reducing response latency by 30% for high-volume prompts.</li> </ul>	

<b>CVine – An AI Wine Identification and Recommendation App</b>	<b>Feb 2025 – Apr 2025</b>
<ul style="list-style-type: none"> <li>– Achieved 95% accuracy in wine bottle identification using Google Vision API (OCR) with 90% text extraction accuracy.</li> <li>– Backend services using GraphQL API for efficient data handling and deployed backend on Render &amp; frontend on Vercel.</li> <li>– AI-based recommendation and conversational system enabling context-aware wine discovery over 8,000+ entries.</li> <li>– Implemented interactive data visualizations using Recharts to display wine characteristics and user ratings, enhancing data comprehension and engagement.</li> </ul>	
<b>PaceX – University Social Media Platform (MERN, Firebase, Google Maps)</b>	<b>Feb 2025 – Apr 2025</b>
<ul style="list-style-type: none"> <li>– Developed core social functionalities including Posts, Stories, and real-time Chatbox messaging.</li> <li>– Implemented secure marketplace with Google Maps API for precise location tracking to facilitate transactions.</li> <li>– Leveraged MongoDB &amp; Firebase for efficient real-time data handling, user authentication, &amp; robust backend support.</li> <li>– Managed complex application state for real-time features like messaging and notifications using Redux Toolkit, ensuring a consistent user experience.</li> </ul>	

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, Python, C#, SQL

**Frontend:** React, Next.js, Tailwind, Material UI, Streamlit, HTML5/CSS3

**Backend & APIs:** Node.js, Express.js, GraphQL, REST, Django, .NET MVC

**AI/LLM** AWS Bedrock, LLaMA, OpenAI, Mistral, LangChain, FAISS, Prompt Engineering, RAG Pipelines

**Databases:** PostgreSQL, MongoDB, Firebase (Firestore), MySQL

**Cloud & DevOps:** AWS, Azure, Docker, Git, Azure DevOps, Vercel, Render, CI/CD