Ashok Jaiwal

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# Objective

Dynamic and results-oriented AI Software Engineer with a proven track record of developing innovative AI solutions. Seeking to leverage expertise in AI models, algorithms, and platforms to drive impactful outcomes in the finance sector.

# SkilLS

* Full-Stack Web Development (NextJS, TypeScript, React Native)
* Artificial Intelligence and Machine Learning (Large Language Models, Computer Vision, TensorFlow.js)
* Natural Language Processing (Text Generation, Voice Recognition, Image Captioning)
* Database Management (Neo4J, Firebase)
* Blockchain and Web3 Integration (Ethereum, NFT Marketplace)
* Firmware Development (C++, Arduino)
* Multimedia Processing (Audio/Video Transcoding, Video Mixing)
* Project Management and Team Leadership
* Rapid Prototyping and Product Development

ExperiencE

## Technical Lead (NextJS/TypeScript/Python/Neo4J)

### Axar Soft |Hong Kong Oct 2022 – Present

* Developed an automated sales proposal generation system for a travel agency, leveraging large language models, graph databases, and natural language processing techniques.
* Built an AI-powered lawyer profile generation tool for a law firm's marketing team, leveraging large language models, vector databases, and natural language processing techniques to create tailored profiles based on project requirements and lawyer expertise.
* Implemented a fine-tuned Stable Diffusion model for generating personalized images, leveraging GPU acceleration on RunPod. Preprocessed and curated a custom dataset, fine-tuned a pre-trained model using distributed training, and deployed the fine-tuned model for inference, enabling the generation images based on text prompts.
* Developed an interactive virtual gym instructor leveraging TensorFlow.js, computer vision, and machine learning models for body pose estimation, exercise recognition, repetition counting, accuracy scoring, and gamification, delivering an engaging fitness experience with real-time video processing and model inference.
* Created the FamilyGPT Telegram bot in TypeScript, integrating advanced AI functionalities including text to image, voice to text, text to voice, image to text etc, showcasing the power of AI in everyday applications.

## Sr. Software Engineer (NextJS/TypeScript)

### RioDeFi |Hong Kong Nov 2021 – Sep 2022

* Architected and implemented NFT marketplace from scratch, leveraging Next.js for frontend development.
* Utilized Firebase for database management and authentication, ensuring data security.
* Integrated Web3 API to interface with Ethereum chain, enabling seamless interaction with blockchain.
* Collaborated closely with design and product teams to enhance features and user experience for a crypto wallet React Native application.
* Led development team, providing technical guidance and ensuring adherence to best practices and project timelines.
* Researched and implemented new technologies to improve scalability, security, and performance.

## Sr. Software Engineer (C++/NextJS)

### Lecker Labs |Hong Kong May 2018 – Oct 2021

* Developed C++ firmware for Arduino with AI-powered incubation tech, enhancing process control.
* Created a React Native app for appliance control, firmware updates, and ingredient ordering.
* Built a Next.js website with user login, store, and secure payments, serving as a central product hub.
* Collaborated with cross-functional teams to deliver high-quality software solutions.

## Software Engineer (C++/Python)

### Ezee Systems | Hong Kong Jul 2015 – Mar 2018

* Developed a patented multipass algorithm for identifying duplicate photos, significantly improving efficiency and accuracy.
* Designed and implemented Python skin engine for TV platforms, enhancing usability and performance.
* Built a microservices server in C++ to handle UI navigation commands, improving responsiveness and reliability.

## Software Developer (C++)

### Muvee Technologies | Singapore Jun 2012 – May 2015

* Built audio and video transcoding pipeline for Sony's PSP, enabling efficient conversion of media files.
* Developed import/export module for videos in Sony cameras, enhancing usability of Sony's camera products.
* Designed and implemented video mixer module, allowing users to combine multiple video streams.

# EDUCATION

## MCA

### Delhi University May 2012

Won first prize in business plan competition, lead the tennis team, and stood second place in university games.

## BSc

### Delhi University Jul 2009

Stood second place in national science fair.