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SKILLS

Languages: Typescript, Javascript, Python, Solidity, Bash/awk, Rust
Frameworks: React.js, Next.js, Node.js, FastAPI, Flask, Tensorflow, Tensorflow.js, TFLite, Pytorch
Technologies: GraphQL, PostgreSQL, MongoDB, WebRTC, Websockets, Docker, Terraform, Hardhat, ethers.js, Metamask, Prisma.io, urql, Zustand, Tailwind, Algolia, AWS, GCP, Nexus, Pothos GraphQL, NextAuth, MDX, Solana, Anchor, Phantom, web3.js

WORK EXPERIENCE

ApTask, Inc.

May 2021 — current

Position: Sr. Full Stack Developer, remote

Hyred.ai video demo: <https://youtu.be/1b9aCeIR5rU>

NFT marketplace for HR built with Polygon, Next.js, Typescript, GraphQL subscriptions, Prisma.io, PostgreSQL, Nexus, Codegen, Hardhat, ethers.js, Alchemy, Algolia, AWS Lambda with Terraform.

Aimient, Inc.

November 2020 — November 2021

Position: Chief Technical Officer (co-founder), remote

AndroBuilder video demo: <https://youtu.be/bH-2qMchTNQ>

Generated video sample: <https://youtu.be/kMQ-jnKfLz0>

No-code platform for creating video chatbots using a visual builder. Video chatbots are integrated into 3rd-party websites built on any platform by inserting a single script tag into <head> section. Chatbots' video questions are generated in seconds by a custom GAN built on top of CycleGAN and pix2pix in Pytorch and deployed on GPU-accelerated (Tesla K80 or higher) GCE instances on Google Cloud procured by Terraform. Task queues with Celery and Redis deployed on a separate GCE instance. Basel2009 used for generating 3D faces datasets with 3DMM expressions. Typescript, Next.js, GraphQL subscriptions, Nexus, Codegen, GraphQL Helix, PostgreSQL.

Andro, Inc.

April 2019 — November 2020

Position: Chief Technical Officer, New York

Video interview platform built with React.js and WebRTC. Tensorflow model served with FastAPI for realtime assessment of candidates' answers using semantic sentence similarity. Yet another Tensorflow model (both deployed on dedicated AWS EC2s) responsible for processing an uncompressed audio stream for checking English language fluency using Mel-filter banks for MFCCs computation in Librosa Python library.

Rollo.ml

July 2015 — March 2019

Position: Technical co-founder, Amsterdam

First «live commerce» DLT marketplace with smart contracts for crowdfunding supply contracts, sellers' profiles AI assessment for buyers, face recognition-based KYC and P2P video streaming capabilities for sellers. Built with React.js, LSTM RNN trained on Lending Club Loan dataset served by Tensorflow.js, WebRTC, D3 for visualization, Truffle Ganache for smart contracts development combined with PayPal for managing sellers' escrow wallets.

EDUCATION

Degree: Udacity Artificial Intelligence Deep RL Nanodegree (Georgia Tech funded)

University: MSU (Moscow State University), Faculty of Mechanics and Mathematics

PERSONAL

TinyML hobbyist (TFLite on Ultra-Low-Power Microcontrollers, e.g. SparkFun and STM32F746G)