Xinyu (Ivy) Li

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EXPERIENCE

Turing Labs Remote

Lead Machine Learning Engineer Dec 2020 - Current

- Built Turing Lab's probablistic Machine Learning Service from scratch as the founding ML Engineer.

- Built a multi-disciplinary team, providing strategic direction, mentorship and guidance in driving the successful development and launch of AI-assisted formulation design, resulting in multi-million-dollar contract renewals and expansions.

- Collaborated with cross-functional teams to define project scope, objectives, and key deliverables, ensuring alignment with business goals and customer needs.

- Developed and maintained customer support processes, addressing technical inquiries and ensuring the timely delivery of ML solutions to meet customer needs.

Studio Xolo Jersey City, NJ

Machine Learning Consultant Sept 2019 - Current

- Implemented engineering best practices in a DARPA funded research project - Multi-agent reinforcement learning for economic mechanism design.

- Developed real-time object detection system on drones.

- Developed documentary footage editing software with visual search component.

Phiar Technologies (Acquired by Google) Redwood City, CA

Cofounder & CTO June 2018 - Aug 2019

- Participated in Y Combinator 2018 summer batch. Raised seed round funding of $2.5 million.

- Led agile development processes, made several key hires, managed a growing team of research and production engineers.

- Designed and implemented deep learning research and deployment pipeline.

- Developed efficient driving scene segmentation models running more than 30 frames per second on iOS devices.

Shutterstock Inc. New York, NY

Data Scientist Jan 2015 - May 2018

- Prototyped, designed and implemented image auto-tagging feature in computer vision REST API service in Python, which improved weekly content submission by 62% on iOS platform and 70% on Android platform.

- Designed and implemented AWS ECS-based visual search system consists of an API interface to a deep neural network model, a high performance search engine written in C++, an orchestration layer in Python, in conjunction with real-time and batch indexing pipelines via RabbitMQ.

- Created Python REST API backend for a Chrome plugin prototype which allows users to find visually similar images on Shutterstock from any image on any website, won company-wide hackathon in 2017.

- Developed an algorithm in Python to cluster visually similar new images, won company-wide hackathon in 2016.

Truveris New York, NY

Data Scientist Aug 2014 - Jan 2015

- Developed Truveris National Drug Index, a volume weighted price index summarizing the average price of prescription drugs in the US over a period of time.

Socure New York, NY

Data Scientist Jan 2014 - July 2014

- Researched and implemented low latency face similarity comparison algorithm in Socure's identity verification REST API service written in Java/Scala.

EDUCATION

Columbia University   New York, NY

MA in Statistics   Feb 2014

Guangdong University of Foreign Studies   Guangzhou, China

BS in Mathematics and Applied Mathematics   May 2012

PATENTS

- Computer-vision based positioning for augmented reality navigation. U.S. Patent 10,871,377.

- Mobile real-time driving safety systems and methods. U.S. Patent 10,573,183.

- Augmented reality navigation systems and methods. U.S. Patent 10,495,476.

- Migrating image histories between different databases. U.S. Patent 10,585,953.

- Analyzing facial recognition data and social network data for user authentication. U.S. Patent 9,147,117.