

# Yang Dai

DATA SCIENCE · PROGRAMMING · ENGINEERING

247 Presidents Lane, Quincy, Massachusetts, 02169, US

☎ (+1) 510-363-6334 | ✉ daiy@mit.edu | 🏠 www.yangdai.info | 📺 superyang713 | 📷 yangdai713

## Hiring Team

January 24, 2019

DARKVISION TECHNOLOGIES INC.  
2433 DOLLARTON HWY 108  
NORTH VANCOUVER, BC V7H 0A1, CA

## Job Application for Machine Learning Engineer

Dear Graham Manders,

## About Me

---

I would like to introduce myself as an applicant for the Machine Learning Engineer position at DarkVision, an innovative company in the field of imaging technology. I am confident in my ability to perform as a Machine Learning Engineer at DarkVision due to my extensive education and research experience.

## Why DarkVision?

---

AI is undoubtedly the next big thing and DarkVision is actively meshing data science with its superior imaging technology. And as a physical chemist with the background of both engineering and data science, DarkVision is definitely one of the few companies that can truly appreciate my value.

## Why Me?

---

Throughout my research history, I have been working on sophisticated surface science instruments. I even designed and built various equipments for the purpose of my research, so I can fully appreciate and comprehend the delicacy and complexity of your data and ultra-sound imaging system.

In my current research role at MIT, I use Python extensively (Numpy, Pandas, Sci-kit Learn). I might be a physical chemist, but I am a fast and active learner. There was once a project proposal that required me to develop a web app to monitor our research equipment condition in real time. It was a short project (2 weeks), so I had to rapidly learn and apply new multiple skills within days, such as Django, JavaScript, and AWS. I am therefore very confident that I could quickly ramp up and add value to your team - both in Python-based work; and any other languages/tools/algorithm you use.

I love coding and data science, and I truly believe programming is the closest thing we human can get to magic. I do everything I can in a text editor, and even this cover letter is written in LaTeX with Emacs. I have actively pursued numerous data science courses and attended seminars at MIT to build my knowledge base; and frequently applied techniques I have learned to my work. I have channeled this passion into a personal blog as well. I now want to apply this passion in my everyday work - especially in a team like yours that values intellectual excellence.

Sincerely,

**Yang Dai**