Robert Lou, MD, MBA

CONTACT
INFORMATION

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website: boblou.github.io

EXPERIENCE

Google — Sunnyvale, CA
Product Manager, Cloud Healthcare and Life Sciences — **2021-Present**
- Healthcare APIs

Clinarify LLC — Philadelphia, PA
Co-founder & CTO (Part-time) — **2020 - 2021**
- Created web tech stack that allows healthcare businesses to access consulting services from our clinician expert network. Supports client e-payments, e-signatures, scheduling, and feedback.
- Provided clients with consulting services from 100+ clinicians across 20 different specialties.

Google — Mountain View, CA
Product Manager Intern, Cloud Security — **Summer 2020**
- Worked on security key product strategy on the Cloud Security team.
- Conducted market analysis and data analysis to determine user trends and opportunities.

Hospital of the University of Pennsylvania — Philadelphia, PA
Machine Learning Researcher (Part-time) — **2017-2020**
- Led team of engineers, clinicians, and statisticians to develop deep learning models to detect follow-up recommendations in the text of radiology reports. This work has been presented at national meetings and featured by radiology press.
- Identified FDA-approved drug candidates to be repurposed for COVID-19 treatment using computational models to estimate the likelihood of drug ligands binding to COVID-19 proteins.
- Publications: Google Scholar

MathWorks — Natick, MA
Software Engineer — **2015-2016**
- Developed functions for the Statistics and Machine Learning Toolbox for MATLAB. Contributed to all parts of the development cycle, including design, implementation, testing, and deployment. Parallelized frequently used back-end C++ functions, which resulted in faster runtimes by 50% for the majority of users.
- Created how-to videos for machine learning in MATLAB.
- Mentored summer interns by defining summer projects and providing technical guidance.

EDUCATION

University of Pennsylvania — Philadelphia, PA
MD, MBA — **2016-2021**
- Distinctions: Marc Levine Radiology Research Award, Wharton Healthcare Fellow
- Program Assistant, RSNA National Imaging Informatics Course: Coordinated with radiologists to deliver content in a new MOOC which teaches informatics to radiology resident physicians.
- VP of Ventures, Penn HealthX: Managed $30,000 venture fund with the aim of supporting students developing innovative ideas in healthcare.

Columbia University — New York, NY
BA in Computer Science and Mathematics, magna cum laude — **2011-2015**
- Distinctions: Columbia Computer Science Department Award (2 students per graduating class), Phi Beta Kappa
- Teaching Assistant, Multivariable Calculus

ADDITIONAL
INFORMATION

Programming Languages/Libraries: Python, Pytorch, C/C++, Java, MATLAB, JavaScript

Interests: Playing piano and accordion (50,000+ YouTube views), cooking, rock climbing, and photography.