

QIAORAN (LI) ABBATE

Recent M.Sc. Graduate in Computer Science

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📍 San Mateo, CA

🌐 linkedin.com/in/qiaoran-abbate

🐙 github.com/qiaoran-abbate

EXPERIENCE

Graduate Assistant

Rochester Institute of Technology

📅 August 2018 – Ongoing

👤 Part-time

📍 Rochester, NY



Open-source Project

Implementing homomorphic encryption api in Apache Spark
All [git users](#). Technology - Java, Python, C++, Json



Computer Vision

Formulated labs and graded for CSCI-431
2 [undergraduate classes](#). Technology - Python, OpenCV



Advanced Java

Lectured and graded for CSCI-605
4 [graduate classes](#). Technology - Java

Development Engineer

EMA Design Automation

📅 July 2016 – June 2017

👤 Full-time

📍 Rochester, NY



Data Wrangling and ELT

Performed data manipulation and transfer on EE schematic data
[Snapchat](#), [Whirlpool](#), etc. Technology - MSSQL, XML



Dashboard for Sales and Hiring

Developed sale and field engineer density map to aid hiring goals
[Company managers](#) and [CEOs](#). Technology - Tableau



Software Consulting

Setup and train client's EE team with self-developed 2 day workshop, and gather worthy feature improvements for the dev. team
2 [onsite](#), 8 [remote companies](#). Technology - CAD Capture

Information Technology Analyst

City of Rochester

📅 June 2014 – June 2015

👤 Co-op

📍 Rochester, NY



Crime Investigation Portal

Created data cube on legacy police data, and visualized on SSRS
[Monroe county police](#). Technology - MSSQL Stack

PROJECT



Turns and Stop Detection on GPS Data with ML and Google Map

Classified turns and stops based on Arduino generated GPS message with 90% accuracy using agglomeration. [Learn more](#)



Android Security Evaluation App with ML

Developed rule-based ML algorithm to identify risking apps in Android Studio. [Learn more](#)



Music instrument Classification with Deep-learning

Developed deep learning models to classify music instrument on NSynth Data-set with a 64.8% accuracy. [Learn more](#)



Sudoku Puzzle Detector with Computer Vision

Developed computer vision algorithm that successfully detect and solves Sudoku Puzzles on Newspapers in Matlab. [Learn more](#)



Breakthrough Board Game with Java

Developed chess-like boardgame as desktop application using Java. [Learn more](#)

Can't click on the links? All projects can be found on my [github](#) site

EDUCATION

M.Sc. in Computer Science

Rochester Institute of Technology

📅 August 2017 – May 2019 [3.69/4.0](#)

B.Sc. in Management Info. System

Rochester Institute of Technology

📅 August 2012 – May 2016 [3.29/4.0](#)

SKILLS

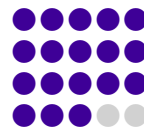
Scripting Language

Python

Java

SQL

Scala



ML Frameworks

Apache Spark

Hadoop



ML Algorithm Families

Bayesian

Decision Tree

Dimensionality Reduction

Instance Based

Clustering

Regression

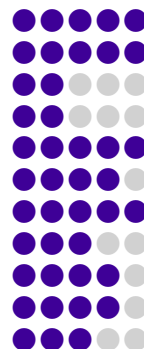
Rule Systems

Regularization

Neural Networks

Ensemble

Deep learning



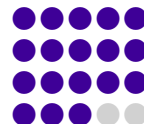
ML Toolkit

Pytorch

Pandas

Matplotlib

Tableau



LANGUAGES

English

Mandarin

Italian



REFEREES

Dr. Hans Peter Bischof [\[@\] hpb@cs.rit.edu](#)

Dr. Leon Reznik [\[@\] lr@cs.rit.edu](#)

Dr. Peizhao Hu [\[@\] ph@cs.rit.edu](#)