

Jersey City, New Jersey

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Skills

Programming Languages: Python (PyTorch, Tensorflow, scikit-learn, pandas, numpy, Flask), Julia, Maple, C/C++ **Scientific Computing:** Machine learning, deep learning, numerical computations, computer algebra

Tools: Git, Bash and ZSH, SQL, AWS (CloudFormation, CodePipeline, Athena, Cloudwatch, DynamoDB)

Work Experience _____

Bill.com New York, NY, USA June 2021 - August 2021

MACHINE LEARNING INTERN

Built and tested natural language processing (NLP) models such as BERT for text classification

Google Summer of Code New York, NY, USA INTERN June 2021 - August 2021

Migrated codebase for parameter identifiability in ODE models to SciML

The City College of New York, City University of New York

ADJUNCT LECTURER Jan. 2020 - Present

• Courses Taught: Statistics for Computer Science

Next Caller, Inc. New York. NY. USA May 2020 - Dec. 2020

SOFTWARE ENGINEER INTERN (DATA SCIENCE TRACK)

• Implement unsupervised and semi-supervised learning algorithms in Tensorflow

• Deploy machine learning models using AWS

Contribute implementations to internal data science tools

Projects _

Projects 2018 - PRESENT

PERSONAL AND RESEARCH PROJECTS AND OPEN SOURCE CONTRIBUTIONS

Research project: Web-based structural identifiability analyzer, click here

 Built a numpy-based machine learning library imitating PyTorch (URL: <u>click here</u>)
Open source contributions: Scikit-Image (Python), SciML's Symbolics.jl, SciML's StructuralIdentifiability.jl (Julia, one of maintainers)

2018 - PRESENT Machine learning

KAGGLE COMPETITIONS

• Cloud Segmentation Challenge: click here

• Alaska Image Steganalysis (submitted as a class final project) click here

Kaggle Ion Switching: click here

Education

Graduate Center, City University of New York

New York, NY, USA Sept. 2018 - PRESENT

New York, NY, USA

PHD CANDIDATE IN COMPUTER SCIENCE • Research Interests: Algorithms and Software for Computer Algebra Systems, Machine Learning and Al.

• Publications: click here

• Awards: ISSAC 2021 Best Software Presentation Award

• Talks: click here

Graduate Center, City University of New York

MPHIL IN COMPUTER SCIENCE

Awarded in 2021 by CUNY Computer Science Department

University of Calgary

MS IN MATHEMATICS

• Publications: click here

Calgary, AB, Canada

New York, NY, USA

Sept. 2018 - 2021

Sept. 2016 - July 2018