

Ilia Ilmer, PhD

Houston, Texas

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Skills

Programming Languages: Python (PyTorch, Transformers, Pytorch Lightning, Scikit-Learn, pandas, NumPy), Julia, Maple, C/C++
Scientific Computing: Machine learning, deep learning, numerical computations, computer algebra
Tools: Git, Bash and ZSH, SQL, AWS (SageMaker, Athena, CloudFormation), Hadoop, Spark

Work Experience

BILL (former Bill.com)

Houston, TX, USA

SR. MACHINE LEARNING ENGINEER

Feb 2023 – Present

- Document processing: develop and extend existing machine learning models for document understanding
- Improved internal document matching engine resulting in increased revenue by over 10 mil monthly

Bill.com

New York, NY, USA

MACHINE LEARNING INTERN

Summer 2022; Summer 2021

- Developed end-to-end pipeline for structured document processing using NLP (transformers)
- Analyzed text document pre- and post-processing patterns to maximize product efficacy

Google Summer of Code

New York, NY, USA

INTERN

Summer 2021

- Migrated codebase for parameter identifiability in ODE models to SciML
- Project page: [click here](#)

Next Caller, Inc.

New York, NY, USA

SOFTWARE ENGINEER INTERN (DATA SCIENCE TRACK)

May 2020 – Dec 2020

- Implement unsupervised and semi-supervised learning algorithms in Tensorflow
- Deploy machine learning models using AWS

Projects

Projects

PERSONAL AND RESEARCH PROJECTS AND OPEN SOURCE CONTRIBUTIONS

- PhD research project: Web-based structural identifiability analyzer, [click here](#)
- PhD research project: Parameter estimation package, [click here](#)
- Built a numpy-based machine learning library imitating PyTorch (URL: [click here](#))
- Open source contributions: Scikit-Image, Symbolics.jl, StructuralIdentifiability.jl

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

PHD IN COMPUTER SCIENCE

Sept 2018 – Feb 2023

University of Calgary

Calgary, AB, Canada

MS IN MATHEMATICS

Sept 2016 – July 2018