

Thean Cheat Lim

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EDUCATION

Master's in Computer Science
Northeastern University
CGPA 4.0

anticipated May 2024
Boston, MA

TECHNICAL SKILLS

Languages:	Python, Java, JavaScript, HTML, CSS, SQL
Databases:	MSSQL, MySQL
Web Technologies/ Libraries:	React, Redux, NodeJS, Tensorflow, Keras, PyTorch, scikit-learn
Professional Certificate:	Deep Learning.AI Tensorflow Developer
Coursera Specialization:	Practical Data Science (built, trained, tuned hyperparameters, deployed ML models with A/B testing in the AWS cloud), Deep Learning Specialization

EXPERIENCES

Graduate Research Assistant Northeastern University	Aug 2021 – Present Boston, MA
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- Researching on algorithms to speed up the computation of Influence Functions used for deep learning model interpretation and debugging.
- Improved the kNN's recall of influential data points by ~80% ($k = 5 \times 10^4$). Enhanced model corrections capability and consequently boosted model performances.
- Fine-tuned BERT on HANS and MNLI using PyTorch and HuggingFace.
- Replicating the FASTIF (Guo et al, 2020) experimental results.

Catastrophe Risk Analyst Validus Research	Oct 2018 – Jun 2021 Minneapolis, MN
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- Authored R packages to aggregate data based on a Shapefile and estimate losses on AWS Redshift.
- Developed scripts (R, SQL, VBA) for automation, efficient data wrangling, loss simulations, and pricing.
- Prepared insurance data, modeled catastrophe risks, priced reinsurance contracts, performed sensitivity analyses on losses distributions, and simulated potential losses from live catastrophic events.

Section Leader - Code in Place Stanford University	Apr 2021 – May 2021 Stanford, CA
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- Led weekly discussion section to supplement professors' lectures of Stanford's CS106A Python Programming course.

PROJECTS

Super SloMo Implementation

- Technologies: Python, PyTorch
- Implemented the U-Nets used in [Super SloMo](#) and provided an open-sourced model training script.

Inventory System

- Technologies: Java, H2(SQL)
- A full-stack BookStore inventory system for adding/searching/updating/deleting/checking out a product.
- Effortless database vendor switching: Overcame vendor-specific SQL differences by implementing an Object-Relational Mapping library.

Social Media Web Application

- Technologies: ReactJS, Redux, Firebase
- Developed a full-stack web application for socializing and sharing thoughts with an online community.
- Features included: Login, Sign Up and Content Feed Pages.

Tic Tac Toe AI Agent

- Technologies: Python
- Implemented Monte Carlo Tree Search (MCTS) algorithm as AI Tic Tac Toe agent