WESLEY Y. TIAN

1700 Geddes Ave, Apt B11
Ann Arbor, MI, 48104

https://wesleytian.github.io

(413) 636-6304
wytian@umich.edu

EXPERIENCE

Clinc, Inc.   Ann Arbor, MI
Software Engineering Intern – AI R&D   Jun. 2018 – Present
- Upgraded named-entity recognition recurrent neural network (RNN) models in Python from TensorFlow 1.0 to 1.8.
- Reduced largest RNN model with long short-term memory blocks from 55% error to under 1% error through analysis, hyperparameter tuning, slot merging, and targeted training and test data modification.
- Deployed 100+ lines of code and one GitLab merge request into production with two more in the pipeline.

Michigan Data Science Team   Ann Arbor, MI
President   May 2018 – Present
- Leading meetings and handling logistics for organization of 100+ active members.
- Planning interdisciplinary hackathon for 100+ people by coordinating logistics and acquiring external sponsor funding.
- Recruiting CEO, Prof. Jason Mars and COO, Prof. Lingjia Tang of Clinc, Inc. to join MDST's advising board.

Project Manager   Jan. 2018 – May 2018
- Led undergrad and grad students in replicating results of 34-layer convolutional neural network with residual blocks in TensorFlow based on Deep Residual Learning for Image Recognition research paper.

Team Member   Sep. 2017 – Dec. 2017
- Engineered handcrafted ML features for ASSISTments Data Mining Challenge 2017, in which we placed 3rd worldwide.

University of Michigan   Ann Arbor, MI
Research Assistant – Machine Learning for Data-Driven Decisions   Sep. 2017 – Apr. 2018
- Collaborated with clinicians and Prof. Jenna Wiens to develop a novel machine learning model to predict acute graft-versus-host disease in patients more accurately than any currently existing tool or clinician.
- Experimented with different longitudinal feature representations with goal of interpretability and better accuracy.
- Drafted research paper being submitted to Biology of Blood and Marrow Transplantation journal.

Fidelity Investments, Inc.   Merrimack, NH
Software Development Intern – Client Apps   May 2017 – Aug. 2017
- Developed a database query web application tool in Angular and Java to automate data retrieval process.
- Placed 1st in internal company hackathon by developing Angular components and services for interview scheduler.

EDUCATION

University of Michigan   Ann Arbor, MI
Bachelor of Science in Computer Science and Data Science; GPA: 3.49/4.00   Sep. 2017 – Present
Coursework: Data Structures & Algorithms, Discrete Math, Applied Regression Analysis, Probability & Statistics

University of Massachusetts, Amherst   Amherst, MA
Bachelor of Science in Computer Science and Mathematics; GPA: 3.76/4.00   Sep. 2015 – May 2017
Coursework: Artificial Intelligence, Programming Methodology, Computer System Principles, Reasoning Under Uncertainty, Programming with Data Structures, Game Theory, Linear Algebra, Multivariate Calculus

Coursera.org/DataCamp/UCL   Online
Machine Learning by Andrew Ng, Learning How to Learn, Reinforcement Learning by David Silver   Jun. 2017 – Present

PROJECTS

Fashion Filtr, Most Creative Use of indico.io API Award at HampHack 201   Apr. 2017
- Awarded $2000 for implementing Indico's object recognition API in a web app to filter clothes by visual preferences.

Remote Thermostat, Personal   Aug. 2016 – May 2017
- Spearheaded invention of IoT device in C and Arduino components to wirelessly regulate and monitor room temperature by using RF signals.
- Original PCB design turned into modular IoT product for RaysHobby generating over $100,000 in revenue annually.
- Programmed web app using Apache Cordova and Ionic cross-platform framework to allow scheduling and setting of temps at adjustable intervals through the gadget.

SKILLS

Programming Languages: C++, C, Java, Python, Scala, R
Software: Angular, LaTeX, scikit-learn, Vim, Git, AWS
Other: Mandarin Chinese, Mountaineering, Blogging