Naitian Zhou

My ~~code is compiling~~ model is training...

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EDUCATION

2018 – 2022
3.929 GPA
B.S.E. Computer Science
B.S.E. Data Science
Linguistics Minor

University of Michigan, Ann Arbor

EECS 280: Intro. Programming + Data Structures	STATS 412: Introduction to Probability and Statistics	EECS 281: Data Structures and Algorithms
EECS 203: Discrete Mathematics	MATH 217: Linear Algebra	LING 111: Linguistics
EECS 445: Machine Learning	*EECS 376: Foundations of CS*	*LING 315/316: Syntax / Semantics*

2014 – 2018 **Thomas Jefferson High School for Science and Technology**

EXPERIENCE

UM School of Information
2019 - Present

Undergraduate Researcher, Blablablab   Ann Arbor, MI

Work on **computational sociolinguistics** project investigating internet condolence speech using **Twitter and Reddit data** with Professor Jurgens in The Bringing together Language and Behavior for Large-scale Analytical Breakthroughs Laboratory.

Michigan Data Science Team
2018 - Present

Vice President of Projects   Ann Arbor, MI

Generate, oversee, and advise on **data science projects** (2-3 each semester) that the Michigan Data Science Team undertakes. Work with **corporate sponsors** and the Michigan Institute for Data Science to organize **university-wide data challenges**.

Capital One
Summer 2019

Software Engineering Intern, Card Data and Machine Learning   McLean, VA

Created performance visualizations application using **Dash** and **pandas** to monitor **reinforcement learning model** used at Capital One. Automated **AWS** infrastructure with **terraform** and added step in data monitoring **step function** for geolocation data.

University of Michigan
2018 - 2019

Student Web Developer   Ann Arbor, MI

Set up data analytics pipeline with **AWS Lambda**, **Elasticsearch**, and **Kibana** to monitor and perform time-series analysis of computer lab utilization data. Perform parking lot **data analytics** with **Pandas**, **Numpy**, and **Matplotlib**.

Capital One
Summer 2018

Software Engineering Intern, Product Upgrades   McLean, VA

Created **Kibana** dashboard to track **Java Spring** API performance, caught **production critical** bug. Contributed and helped deploy API changes to production **AWS**. Followed **Agile** development methodologies. Developed prototype computer vision solution to syncing agile Kanban board with Jira. Implemented **CI** step in **Jenkins** to **automate** code style.

PROJECTS

Subtle Asian Data

Researcher / Lead Author

Examined **language use** and **demographic data** of the popular Facebook group *subtle asian dating* in an attempt to address the question of how the young adult Asian diaspora is forging its own online identity through its use of language. Paper can be found at: http://www-personal.umich.edu/~naitian/pub/subtleAsianData2019.pdf
Python: Pandas, nltk

Conrad
MHacks 11

Developer

Inspired by the Simpsons' episode *The Girl Code*, we used scraped Facebook posts to train a **random forest regressor** that predicts Facebook reacts based on the text of your post. We used **doc2vec** to generate sentence embeddings as features for the model.
Deep Learning - Python: Pandas, sklearn, gensim

Writing Style Transfer
Senior Research Project

Researcher / Author

A year-long research project exploring the state of the art in transferring writing style between corpora. Represented sentences in sentence vectors with a Theano **skip-thoughts model**. Explored and visualized approaches to style transfer with Numpy and Matplotlib. Trained decoder models on remote GPU cluster.
Deep Learning - Python: Numpy, Theano, Matplotlib

more projects at naitian.org/projects and github.com/naitian

SKILLS

WEB	DESIGN	DATA / AI	PROGRAMMING / MISC.
JavaScript, HTML5, CSS3, SASS, Django, Vue, React, PHP, SQL	Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Affinity Designer	Python, Matplotlib, NLTK, Tensorflow, Web Scraping, Keras	Java, Python, Git, Bash, Nginx, Linux, Libvirt, Ansible, Vim, AWS, Gherkins, Kibana

More information at naitian.org.