

Naitian Zhou

My code is compiling model is training...

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EDUCATION

2018 – 2022

B.S.E. Computer Science

University of Michigan, Ann Arbor

EECS 280: Intro. Programming + Data Structures
EECS 203: Discrete Mathematics

MATH 215: Multivariable Calculus
MATH 217: Linear Algebra

LING 111: Linguistics
EECS 281: Data Structures and Algorithms

2014 - 2018

Thomas Jefferson High School for Science and Technology

Artificial Intelligence 1 & 2
Computer Systems Research

EXPERIENCE

University of Michigan
2018 - Present

Student Web Developer

Maintain custom **Flask** web applications for the University of Michigan. 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**.

Ann Arbor, MI

Capital One
Summer 2018

Technology Development Intern, Product Upgrades

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.

McLean, VA

Student Sysadmins
2016 – 2018

Intranet Lead

Managed Ion, the student intranet. Used **Django**, **HTML**, **SCSS**, **JavaScript**, and **Linux** to manage a **production code** environment and **virtual machines**. Worked with a large codebase that serves over **two thousand student and staff** every day.

Alexandria, VA

Traveler Enterprise
Summer 2017

Web Development Intern

Contributed to internal hotel booking and inventory management system built on **PHP**, **MySQL**, and web technologies. Designed and developed prototype of **new UI**. Implemented **analytics features** that increased efficiency.

Fairfax, VA

TJ Dev Club
2016 - 2018

Co-President

Gave weekly lectures on a variety of **web development** frameworks, libraries, and technologies, including **WebVR** and **React**.

PROJECTS / OPEN SOURCE

Writing Style Transfer
Senior Research Project

Researcher / Author

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

Buttercup
Open Source

Contributor

A native open source password manager built with Electron
Made design and functional improvements that have been accepted, working on a large codebase written with web technologies, including Backbone.js.
Over 200k downloads. Electron, JavaScript, HTML, CSS, Backbone.js

Lighthouse
HackJTJ 2017, Palantir Social Impact Prize

Backend Developer

An Android app that matches people up with temporary shelter in times of crisis. The app was featured in tjToday. Wrote a backend using MongoDB and Flask to serve up data.
Python, React Native, Flask, MongoDB

TJ Admissions Classifier
Personal Project

Developer

Aggregated historical TJ admissions data to write a classifier using Tensorflow that predicts likelihood of admission into TJ based on demographic information and test scores.
Python: Pandas, Numpy, Tensorflow

Facebook Reacts Analysis
Personal Project

Developer / Author

Scraped Facebook data on profile picture like counts to analyze the percentage of a user's friends to find a "sweet spot" in number of actively participating friends. Read more at: <https://naitian.org/blog/2017/04/15/Do-My-Friends-Care-About-Me/>.
Python: Pandas, Numpy, Selenium, BeautifulSoup

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

SKILLS

WEB

JavaScript, HTML5, CSS3, SASS, Django, Vue, React, PHP, SQL

DESIGN

Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Affinity Designer

DATA / AI

Python, Matplotlib, NLTK, Tensorflow, Web Scraping, Keras

PROGRAMMING / MISC.

Java, Python, Git, Bash, Nginx, Linux, Libvirt, Ansible, Vim, AWS, Gherkins, Kibana

More information at naitian.org.