Sander Lanbo SHI

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Seattle, WA | July 2019 - Current

EDUCATION

CARNEGIE MELLON UNIVERSITY

B.S. COMPUTER SCIENCE MINOR IN MATHEMATICS Class of 2019 | Dean's List

COURSEWORK

COMPUTER SCIENCE

Distributed Systems
Natural Language Processing
Computer Vision
Machine Learning
Algorithm Design & Analysis
Data Science
Complexity Theory (TA)
Parallel Algorithms
Computer Systems
Theoretical Ideas in CS
Functional Programming

MATHEMATICS

Real Analysis
Calculus in 3D
Matrix Algebra
Discrete Math
Probability Theory
Set Theory
Combinatorics

SKILLS

COMPUTER

Languages
Python • Java • Go
Javascript/Typescript

Technologies

Angular • Scikit-Learn

Keras • Spark • Hadoop

Neo4j • ½TEX• Git • Linux (avid

Arch Linux user) • Unix

NATURAL LANGUAGES

English (Native/Bilingual) Mandarin (Native/Bilingual) French (Elementary)

WORK EXPERIENCE

HULU | SOFTWARE DEVELOPER

• Currently on the Artoo team at Hulu!

CARNEGIE MELLON UNIV. | TEACHING ASSISTANT Pittsburgh, PA | Fall 2018

• Held office hours/exam review sessions and graded for Complexity Theory.

HULU | SOFTWARE ENGINEERING INTERN

Seattle, WA | Summer 2018

- Designed a graph model and wrote a Spark job to populate a graph database for user path analysis. Deployed on Docker containers on a cluster of servers.
- Created RESTful API with Express and Typescript to query Neo4j graph database.

SCHRÖDINGER | SOFTWARE ENGINEERING INTERN New York, NY | Summer 2017

- Implemented features for a cross-platform protein sequence viewer in Python & Qt5.
- Improved synchronization between QtWidgets and reduced the code base by 10%.

OPENCHIRP | SOFTWARE ENGINEER (PART-TIME) Pittsburgh, PA | Spring, Fall 2017

- Developed a management framework for Low-Power WAN devices using Angular.
- Created a dashboard that interacted with the devices using a REST API.

TUXLAB | SOFTWARE ENGINEERING INTERN

Pittsburgh, PA | Summer 2016

- Developed a framework for creating interactive Linux courses using Angular Meteor.
- Integrated a web terminal (tty.js) into the web app.

PROJECTS

YELP RATING PREDICTION

Group Project | Spring 2018

• Lead a team of 3 to query, parse and analyse restaurant data, then train on ML models.

MIDI CLASSIFICATION TUTORIAL Data Science Course Project | Spring 2018

 Created a tutorial that went through parsing midi data, extracting features and training on different ML models (ANN, SVM). 75% test accuracy over 15 classes.

HANDWRITTEN DIGIT CLASSIFIER

CV Course Project | Spring 2017

- Implemented a Convolutional Neural Network with the LeNet architecture.
- Trained newtork on handwritten digits and acheived a 97% test accuracy.

WEB DEVELOPMENT

Hobby | 2012 - Present

 Designed and developed over 10 websites/web apps, including a CMU student org website (https://www.cmu.edu/summit), my personal website, a miniature social networking site, and many more.

EXTRACURRICULAR ACTIVITIES

Student Organizations | 2015 - 2018 | Was a member of the Archery Club, Parkour Club, and CMU Sahara (Bollywood Dance Team). Performed in dance competitions.

Music | 2001 - Present | Play, compose and improvise on the piano, saxophone and trumpet with classical and Jazz music. Trying to learn as many instruments as I can.