

Sander Lanbo SHI

(412) 478 7080
sandershi@cmu.edu
sandershi.com
github.com/sandershihacker

EDUCATION

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

COURSEWORK

COMPUTER SCIENCE
Computer Vision
Machine Learning
Algorithm Design & Analysis
Data Science
Complexity Theory (TA)
Parallel Algorithms
Computer Systems
Theoretical Ideas in CS

MATHEMATICS

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

SKILLS

COMPUTER

Languages
Python • SML • C/C++
Matlab/Octave • Javascript
Typescript • Java

Technologies
HTML • CSS/SCSS • Angular
Meteor • Scikit-Learn
Keras • Android Studio
PyQt5 • \LaTeX
Git • Linux (avid Arch Linux
user) • Unix • Jekyll

NATURAL LANGUAGES

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

WORK EXPERIENCE

HULU | SOFTWARE ENGINEERING INTERN Seattle, WA | Summer 2018
• Currently interning on the client data metrics team.

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.

GRIDWORLD RESOURCE COLLECTION AGENT Competition | Spring 2017
• Designed search algorithm to collect resources in a 2D grid within a number of steps.
• Won 1st place for 4 out of 5 rounds (Algorithms with a Purpose).

WEB DEVELOPMENT For Fun | 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.

ANDROID GAME: TARTAN TAG Hackathon (HackCMU) | Fall 2015
• Developed the game using a barcode scanning API on a team of 4.

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.