http://langxuans.com sux.ryan2011@gmail.com | +1 (412) 953-2155

EDUCATION

CARNEGIE MELLON UNIV

B.S. IN MATHEMATICAL SCIENCES
B.S. IN COMPUTER SCIENCE
MINOR IN STATISTICS
MINOR IN MACHINE LEARNING
Expected May 2018 | Pittsburgh, PA
Cum. GPA: 3.74
Science and Humanities Scholars
Dean's List High Honors

AFF HIGH SCHOOL OF SCNU

Grad. May 2014 | Guangzhou, China

LINKS

Github:// law-liet LinkedIn:// langxuansu

COURSEWORK

GRADUATE

Machine Learning (10-701) Graduate Analysis (21-651, 21-720)

UNDERGRADUATE

Real Analysis (21-269*, 21-355, 21-356) Linear Algebra (21-242*, 21-341) Abstract Algebra (21-373) Probability/Statistics (21-325, 36-326*) Discrete Math (21-127, 21-484) Functional Programming (15-150) Theoretical Computer Science (15-251) Algorithms (15-210) Intro to Computer Systems (15-213) Data Analysis/Science (15-388, 36-401) Game Theory (80-405) (* Honors Course)

SKILLS

PROGRAMMING

Over 3000 lines:

Javascript • SML • Python • LATEX

Over 1000 lines:

C • Haskell • CSS • PHP

Familiar:

MATLAB • R • Mathematica

Framework:

Diango • MEAN • React • Codelgniter

EXPERIENCE

RESEARCH ASST & COAUTHOR | CMU DEPT. COMPUTER SCIENCE

May 2016 - July 2016 | Pittsburgh, PA

- With Prof. Seth Goldstein & Prof. Mark Kamlet on the Future of Work project.
- Reviewed papers, and applied regression (linear, LASSO) analysis & machine learning methods (random forest, PCA), to support a component model of jobs.
- Refactored the pipeline of scripts and file structure for data analysis process.

PEER TUTOR | CMU ACADEMIC DEVELOPMENT

Mar 2016 - Present | Pittsburgh, PA

- Tutor of Real Analysis I (21-355) & Theoretical Computer Science (15-251).
- Hold weekly standing tutoring appointment. 1st 300+ math & 15-251 Tutor.

TECH COMMITTEE | CMU Chinese Student Association

May 2015 - Present | Pittsbutgh, PA

- Full stack developer of CMU CSA official website with Django & Bootstrap.
- Provide technical support for various campus events: built a live display voting platform for CMU Best Voice and the official page of CMU SUMMIT.

PROJECTS

MACHINE COMPREHENSION | DEVELOPER & REPORT WRITER

Mar 2016 - May 2016 | 10-701 Course Project

Worked with Chuan Liu to design and implement machine learning algorithms, with lexical information retrieval, using Python NLTK, for open-domain machine text comprehension, on Microsoft **MCTest** dataset. Achieved an accuracy of 60%.

LANGXUANS.COM | FULL STACK DEVELOPER

Oct 2015 - Present | Independent Project

My personal websites built with back-end Haskell Scotty, Clay, and front-end Elm, a Functional Reactive Programming Language for web front-end development.

UNIRW | AUTHOR, DESIGNER & DEVELOPER

June 2016 - Present | Independent Project

A universal reader & writer for stateful data file processing, with basic map & reduce functionality. Inspired by refactoring read-write code. Published in **PyPI**. With documentation, tests and examples. Used in Future of Work project.

AWARDS

2015 6-th/44 15-150 MiniMax/AlphaBeta Estimator Tournament

2011 Regional Top 2 China National Mathematics Olympiad2011 Regional Top 10 China National Applied Physics Olympiad

INTERESTS

Mystery Read and write mystery stories as a hobby since middle school.

Go An improving 7k (estimated) player.

Rubik's Cube Personal record: solved in <30 seconds.

CHN Calligraphy National 2nd Class of a middle school contest in 2010.