Nelson Liu

nfliu@uw.edu
nelsonliu.me
github.com/nelson-liu

EDUCATION

University of Washington – Seattle, WA | 2015 – 2019 (Expected) | Cumulative GPA: 3.77
Bachelor of Science, Statistics and Linguistics (Intended)

EXPERIENCE

University of Washington Computer Science and Engineering – Seattle, WA
Noah's ARK Group Undergraduate Research Assistant | September 2015 – Present

- Working with Professor Noah Smith on various NLP research projects.
- Used amicus briefs to predict Supreme Court case decisions.

Wireless Lab Undergraduate Research Assistant | June 2015 – August 2015

- Worked with Professor Shyam Gollakota to wirelessly power devices and embedded systems with ambient backscatter.

MIT Computer Science and Artificial Intelligence Laboratory – Cambridge, MA
InfoLab Group Research Assistant | June 2013 – September 2014

- Wrote Scheme scripts to dynamically extract JPL and U.S. Election Atlas data for use in the START natural language question answering system.

SELECTED SOFTWARE PROJECTS / OPEN SOURCE

SCIKIT-LEARN | Contributor / Google Summer of Code 2016 Participant
2015 - PRESENT | Popular Python machine learning library (12.5K+ Github stars)

- Prolific reviewer of community-submitted pull requests. I also contribute various pull requests for enhancements and bugfixes to the project.
- Participating in Google Summer of Code 2016, working on various enhancements to decision tree module (adding new impurity splitting criterion and tree pre- / post-pruning).

ASLSPEAK | Best Use of Microsoft Tech / Best Use of Data @ DubHacks 2015
October 2015 | A gesture-based sign language translator.

- Team lead role with a focus on building the classifier and gathering training data.
- Used the Leap Motion to gather training data on sign language, and built an artificial neural network classifier to translate sign language gestures to audio spoken on a computer.

MYODRONE | Top 30/300+ projects, PennApps Winter 2015
January 2015 | An intuitive method of wearable drone control.

- Team lead role with focus on back-end development.
- Used the Thalmic Labs Myo armband and arm gestures to control a Parrot Drone with 8 directions of movement.

FALANGAFONE | Top 20/120+ projects, HackPrinceton Fall 2014
November 2014 | An gesture-controlled music editing tool.

- Used the Leap Motion to enable live editing of .mp3 and other sound files via finger and hand gestures.
- Developed a Flask backend as well as a web front-end for the application, used the Pyo library to modify music on the fly.

ACHIEVEMENTS / AWARDS

2016 – Scipy Scholarship Recipient
2015 – Best Use of Microsoft Technology / Best Use of Data, DubHacks 2015.
2015 – Winner, Hack The Dot Seattle
2015 – Finalist, AngelHack Seattle
2015 – Winner, Lockheed Martin Code Quest Sunnyvale
2015 – Top 30 of 300+ projects, PennApps Winter 2015
2014 – Top 20 out of 120+ projects, HackPrinceton Fall 2014
2014 – Winner, Improving MIT Award, MIT BitComp 2014