Andrew Laird

Email: lairdandrew11@gmail.com • Website: https://www.ics.uci.edu/~alaird/ • Phone: 408-402-1128

Skills

Base Languages: Python, Java, C++, C, R
ML Tools: Tensorflow, Pytorch, Numpy, Pandas, Keras
Full-Stack Tools: Linux, MySQL, MongoDB, PHP, MySQL, HTML, CSS, Javascript, React, Django, Flask, Bash

Experience

Institute for Memory Impairments and Neurological Disorders, Irvine   November 2019 - February 2020
Research Assistant

- Aided a medical Ph.D. student and a clinician to build predictors of Alzheimer's progression in blood data. Using Python and R

LeaseCalcs, Irvine   June 2019 - August 2019
Software Development Intern

- Designed new features for LeaseCalcs' main product, in PHP, SQL, MongoDB, and JavaScript
- Formulated some features in entirety, including design specification, implementation, and support

Baldi Group, Irvine   April 2019 - November 2019
Research Assistant

- Implemented cutting-edge approaches in Reinforcement Learning with Pytorch and Tensorflow to expand Multi-Agent and Partially Observable research. Implemented parallelized code and worked on a quickly moving GitHub project.

Ragan Lab, Irvine   May 2018 - March 2019
Research Assistant

- Performed data preprocessing and prediction on Raman Spectroscopy data using classical models (SVM, Random Forest) and modern machine learning models (Keras, Pytorch)
- Co-Authored a paper on predicting molecular concentrations published in ACS Sensors

Integrated Nano Research Facility (INRF), Irvine   February 2017 - May 2018
Development Engineer

- Designed a system to automate monitoring of the INRF. Working alongside Process Control engineers to improve reproducibility and lab security. Created both server and client-side of monitoring using Linux, Python, Django, Arduinos and Raspberry Pi's

Volunteering/ Extracurricular

Stanford "Code in Place" -- Section Leader
- Volunteered as a section leader to guide and support 10 students through Stanford's intro to Python course

AI@UCI -- Mentor
- Researched, crafted, and presented 1-3 lessons a quarter illustrating different techniques in AI. Teaching an average of 40 students

Association of Computer Machinery (ACM) -- Corporate Outreach
- Corporate Outreach chair, interacting with local companies as well as larger tech companies to bring information and opportunities to UCI students. This was an excellent opportunity to build personal and networking skills

Awards

Google Irvine's Tech Challenge 1st place (2019)

- Took 1st place in an intercollegiate competition on Google's Irvine Campus. Competed against 11 other teams in a full day of logic and programming puzzles

IEEExtreme 24hr Competition Top 100 (2019)

- Took top 100 in a global competition against 4103 teams of 3. Problems ranged from simple text processing to computational geometry to traveling salesman variants

Education

University of California, Irvine   June 2020
B.S. in Computer Science, Minor in Statistics
Interests in Algorithms, Machine Learning, and Statistics. **GPA: 3.7**