

# Andrew Laird

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## Skills

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Base Languages: Python, C++, C, Java

Full-Stack Tools: Linux, MySQL, MongoDB, PHP, MySQL, HTML, CSS, Javascript, React, Django, Flask, Bash

## Experience

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### 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, taking clients pain points to 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. Inspired some of my workshops for AI @ UCI

### 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). Reorganized and cleaned code for other researchers to reproduce our results.
- 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

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### Stanford "Code in Place" -- Section Leader

- Volunteered as a section leader to guide and support 10 students through Stanford's intro to Python course

### 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

### AI@UCI -- Mentor

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

## Awards

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### 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

### IEEEExtreme 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

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### University of California, Irvine

June 2020

B.S. in Computer Science, Minor in Statistics

Interests in Algorithms, Machine Learning, and Statistics. **GPA: 3.7**