

# Eli Pandolfo

Software Developer

## Contact Info

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## Github

- [github.com/elip12](https://github.com/elip12)

## LinkedIn

- [linkedin.com/in/eli-pandolfo](https://linkedin.com/in/eli-pandolfo)

## Certifications

- AWS Technical Professional

## Professional Skills

### Development Practices

- Agile
- AWS Cloud Computing
- CI/CD
- RESTful API Architecture
- Relational Database Design
- End-to-end Testing

### Languages

- Python
  - Pandas
  - Scikit-learn
  - Matplotlib
  - Multiprocessing
- C & C++
  - pthreads/thread
- JavaScript/HTML
  - Node.js
  - Vue.js
  - Django
- Bash
- SQL
- Java
- Arduino

### Programming Paradigms

- Functional Programming
- OOP
- Parallel Programming
- Algorithmic Paradigms
  - Greedy
  - Divide & Conquer
  - Dynamic Programming
  - Graph Algorithms

## About Me

CS major at UC Santa Cruz with advanced programming experience and coursework in math and biology looking for creative work and research opportunities. Especially interested in developing my skills in data science, parallel processing, and machine learning. I have project experience in Bioinformatics, computational Economics, and web development. In my down time I bike, surf, play jazz sax, and am an avid backpacker and skier. Ready to learn and contribute in any way possible.

## Experience

**Programmer** *UCSC LEEPS Econ Lab, Santa Cruz, CA* 04/17 - 06/18, 06/19 - present  
Implement real-time multiplayer web-based economics research experiments with Vue.js and Django. Set up and maintain a Linux production server to host the experiments. Write Python, MATLAB, and Bash scripts to analyze and visualize data collected while participants play the apps. Hire, train, and supervise department programmers.

**Software Engineering Intern** *productOps, Santa Cruz, CA* 06/18 - 06/19  
DevOps-heavy role developing a Node API and Postgres database that simplifies and streamlines the creation of AWS infrastructure. Wrote end-to-end and integration tests for Angular/Node web apps.

**Assistant Steeplejack** *Southgate Steeplejacks, Barre, VT* 06/15, 06/16 - 08/16  
Built and restored church steeples in Vermont and New Hampshire. Learned basic carpentry (jointing, planing, routing, fastening, sanding, sawing).

## Education

**BS Computer Science** *UC Santa Cruz* 06/16 - 06/20

- GPA: 3.95
- Regent's Scholarship
- College Scholars Program
- Dean's Honors
- *Relevant Coursework*
  - Advanced Parallel Processing
  - Operating Systems
  - Artificial Intelligence
  - Computer Architecture
  - Algorithm Design and Analysis
  - Research Seminar on Computational Biology
  - Probability & Statistics

**42 Piscine** *42 Silicon Valley* 06/17 - 07/17

- Four-week intensive C coding program at School 42 in Fremont, CA

## Service/Extracurricular

- Tutored classmates in linear algebra and various programming classes, UCSC
- Volunteered at UCSC's 1st & 2nd annual Model UN conferences
- UCSC Small Jazz Ensembles (Alto & Tenor Sax)

## Projects

**Machine Learning** [https://github.com/elip12/machine\\_learning](https://github.com/elip12/machine_learning)

- Personal projects: wrote simple machine learning algorithms from scratch, and used scikit-learn to attempt to predict major price events in cryptocurrency markets.

**Genome Wide Association Study** [https://github.com/elip12/GWAS\\_antibiotic\\_resistance](https://github.com/elip12/GWAS_antibiotic_resistance)

- School project: prototype program for parsing dataset of bacterial genomes, and using statistical techniques to identify mutations that cause antibiotic resistance.

**Computational Economics Experiment** [https://github.com/elip12/Lines\\_Queueing](https://github.com/elip12/Lines_Queueing)

- Work project: web app simulating people waiting in line. Players can offer to trade places with each other in real time for money.
  - Demo available at [leeps-otree.ucsc.edu:8000/demo](https://leeps-otree.ucsc.edu:8000/demo). Click 'lines fork'.