Eli Pandolfo

Software Developer

Contact Info
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Github
- github.com/elip12

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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
  ‣ Android
- 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. Develop dynamic agents for high-frequency financial market simulations.

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* 09/16 - 06/20
- GPA: 3.95
- Regent's Scholarship
- College Scholars Program
- Dean's Honors
- Undergraduate research with LINQS Lab

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 Practice
- Wrote basic linear regression, KNN, SVM, and DT algorithms in python, and used scikit-learn to attempt to predict major price events in cryptocurrency markets.
Genome Wide Association Study
- Use machine learning to identify mutations in *E. coli* that cause antibiotic resistance. Specifically use PSL, a statistical relational programming framework.
Computational Economics Experiment
- Web app simulating people waiting in line. Players can offer to trade places with each other in real time for money. Includes Vue.js front-end and Django framework augmented with websockets for real-time client-server communication.
StenoScribe Android App
- Mobile app for streamlining note-taking during meetings. Includes speech-to-text for transcribing audio and Google Firestore NoSQL database that syncs to local database. Soon to be available on the Google Play Store.