

Eli Pandolfo

Software Developer

Personal Info

Email

- elipandolfo@gmail.com

Phone

- (802) 498-8164

Github

- github.com/elip12

Linkedin

- linkedin.com/in/eli-pandolfo

Website

- elip12.github.io

Professional Skills

Development Practices

- CI/CD
- Agile
- AWS
- TDD/BDD
- RESTful API Architecture
- Relational Database Design
- Software Testing

Languages

- Python
- Bash
- JavaScript & HTML
- SQL
- C & C++
- Java
- Arduino
- Matlab

Programming Paradigms

- Functional Programming
- Object-oriented Programming
- Parallel Programming

Algorithmic Paradigms

- Greedy
- Divide & Conquer
- Dynamic Programming
- Graph Algorithms

Certifications

- AWS Technical Professional

About Me

CS graduate from 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 computational biology, data science, and parallel processing. 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 *LEEPS Lab, UC Santa Cruz, CA* 2017 - 2018, 2019 - 2020

- Developed real-time multiplayer economics experiments for research into markets, game theory, and decision-making.
- Wrote Python and Bash scripts to analyze and visualize experiment data.
- Set up and maintained a public Linux production server.
- Hired, trained, and supervised four lab programmers.

Software Engineering Intern *productOps, Santa Cruz, CA* 2018 - 2019

- Developed Node API and Postgres database that simplifies and streamlines the creation of AWS infrastructure, reducing startup overhead for new projects.
- Wrote end-to-end and integration tests for Angular/Node web apps, ensuring safe updates to production applications with 1000+ users.

Assistant Steeplejack *Southgate Steeplejacks, Barre, VT* 2015, 2016

- 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* 2016 - 2020

- GPA: 3.96
- Regent's Scholarship
- College Scholars Program
- Undergraduate bioinformatics & machine learning research with [Linqs Lab](#)
- Areas of focus: bioinformatics, computational economics, data wrangling & machine learning, parallel processing

42 Piscine *42 Silicon Valley* 2017

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

Projects

Genome Wide Association Study *Linqs Lab, UC Santa Cruz*

- Microbial GWAS program that uses statistical relational learning to predict genetic causes of bacterial phenotypes.
- Successfully identified genes in *E. coli* known to cause antibiotic resistance, outperforming a state-of-the-art method.

Computational Economics Experiment *Leeps Lab, UC Santa Cruz*

- Multiplayer web app with Vue.js UI simulating people waiting in a queue.
- Players trade places with each other for money in real time.

StenoScribe Android App *Mobile Apps Class, UC Santa Cruz*

- Mobile app for streamlining note-taking during meetings. Users can instantly share speech-to-text transcriptions, photos, and documents.
- Implemented with Google Firestore NoSQL database.