Paola Dolcemascolo, PhD (she/her/hers)
Full-Stack Software Engineer
Greater NYC (open to relocation) | 908-416-5987 | Email | Github | Blog | LinkedIn | Portfolio

Full stack software engineer with a passion for exploring the intersection of technology and data visualization. Experience in web development through cutting edge research in molecular biology and genetics. Background in academia, with excellent problem-solving skills and ability to communicate technical concepts to a wide variety of audiences.

TECHNICAL SKILLS

Ruby, Rails, SQL, JavaScript, React, Redux, HTML, CSS, Material UI, Semantic UI, Postgres, Google Map API

TECHNICAL PROJECTS

NatureBook - Frontend | Backend | Demo
An app designed to encourage the exploration of nature by younger children
- Implemented MVC pattern, with Ruby on Rails for backend, dynamic React routing and Material UI on frontend
- Utilized Google Maps API to display user coordinates, and JSON Web Tokens to store encrypted user information

FlatironGossipGirls - Frontend | Backend | Demo
An app for the gossip lover to keep up to date with all the latest trending celebrity news
- Built backend APIs using Ruby on Rails and the MVC pattern
- Developed frontend using vanilla Javascript and custom CSS

Trinder - Frontend | Backend | Demo
An app designed to help connect outdoor enthusiasts to trips and events taking place in America's National Parks
- Utilized the National Park Service API, along with JSON Web Tokens for storing encrypted user information
- Implemented MVC pattern, with Ruby on Rails for backend, React and custom CSS for frontend

EXPERIENCE

FULL-STACK SOFTWARE ENGINEER, Remote: *Nov 2020-Current*
- Full stack development on apps for trip sharing and dog meetups using React (including hooks), Redux, Node.js, Ruby on Rails, Postgres

PROFESSOR, Berkeley College, NYC: *Sept 2014-Dec 2019*
- Orchestrated a 20% increase in student engagement and positive reviews of Math and Science Department classes by using diverse teaching methodologies and student advisement activities
- Spearheaded initiative to improve student comprehension by 10% and streamline budget calculations via data collection on the effectiveness of science lab activities

MOLECULAR BIOLOGIST, Wildlife Conservation Society, NYC: *Sept 2016-Jan 2019*
- Enhanced the efficiency of an iOS mobile app in the analysis of environmental DNA samples for the detection of fungi, turtles and endangered sharks
- Mobilized quality control testing of novel MinIon mobile flow cell technology for DNA and RNA sequencing

RESEARCH TECHNICIAN, Montclair State University, NJ: *Sept 2009-Dec 2013*
- Analyzed and visualized genetic data with the use of DNA Analysis software to be used in policy decisions
- Managed undergraduate and graduate research students projects

ADJUNCT PROFESSOR, Essex County College, NJ: *Sept 2004-Dec 2006*
- Implemented novel instructional methodologies for teaching STEM classes to non-science majors

EDUCATION

Flatiron School   NYC, NY
Full Stack Web Development, Ruby on Rails and JavaScript program   06/ 2020 - 09/2020

Montclair State University   Montclair, NJ
PhD, Environmental Management   09/2009 - 05/2014