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

Full stack web developer 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

Berkeley College   NYC, NY
Professor   09/2014 - 12/2019
- 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

Wildlife Conservation Society   NYC, NY
Molecular Biologist   09/2016 - 01/2019
- 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

Montclair State University   Montclair, NJ
Conservation Biologist/Research technician   09/2009 - 12/2013
- 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

Essex County College   Newark, NJ
Adjunct Professor   09/2004 - 12/2006
- 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