

# 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

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

### TECHNICAL PROJECTS

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#### 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

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#### 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 Minlon 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

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#### 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