

# Melody Luo

Full-Stack Software Engineer @ New York, NY

 (248) 835 – 3951  [melluo@hotmail.com](mailto:melluo@hotmail.com)  [Portfolio](#)  [LinkedIn](#)  [Github](#)

## Projects

### bumblr



*Ruby on Rails, PostgreSQL, React, Redux, Amazon AWS(S3)*

A doggy-driven clone of media-sharing and blogging platform tumblr.

- » Implemented front and back end authentication using BCrypt and react-router, alongside cookies to persist logins across sessions.
- » Utilized Amazon Web Services (AWS) S3 and Rails Active Storage to store and compress images, employing Amazon's data security amongst project asset.
- » Leveraged front-end data validations using React component state to safeguard against unnecessary asynchronous JavaScript requests.

### Treat Retriever



*JavaScript, HTML, CSS, Canvas*

An infinite run game inspired by T-Rex Runner and good dogs.

- » Built using object-oriented programming to ensure an organized codebase and abstract similar classes for clean and maintainable code.
- » Designed collision detection for the implementation of game logic such as score incrementing, treat retrieval, and game-over features.
- » Engineered parallax background with negative accelerations using moving background canvas, treats, and obstacles.

### Fortune Couple



*Mongoose, MongoDB, React.js, Express.js, Node.js*

A compatibility application inspired by fortune cookies, which generates fortunes based on two users' zodiacs.

- » Coordinated with teammates as flex engineer to fulfill any missing pieces, serving as the main guide for data sourcing and research to create user-friendly, ascetically pleasing UX/UI.
- » Employed Mongoose schema to define the calculations data structure to create a back-end Mongoose model.
- » Formulized front-end util to fetch user calculation and fortune data, utilizing axios calls to generate history of user fortune page.

## Skills

**Technical:** React, Redux, JavaScript, Python, Ruby, Rails, HTML, CSS, Mongoose, MongoDB, Express.js, Node.js, PostgreSQL, SQL, jQuery

**Technologies:** Git, Adobe Photoshop, Heroku, Amazon AWS

## Education

### App Academy

2019 – 2020 // Full-Stack Bootcamp  
*1000+ hour software developer curriculum with < 3% acceptance.*

### Indiana University

2014 – 2018 // Bloomington, IN  
Bachelor of Science in Finance

## Experience

### New Theory Creative, Remote

Present // Web Developer

- » Go to engineer to fill in any gaps, help design company website, as well as serve as a contractor.

### Textron Inc., Dallas, TX

Jun – Aug 2017 // Information Services

- » Conducted cost validations for over 80 global suppliers.
- » Designed layout for IT financial Management SharePoint, ensuring smooth website user interaction and acclimating UX.

## Additional Information

**Interests:** Piano, Traveling, Running, Reading, Professional Development

**Languages:** Fluent Mandarin

**Work Eligibility:** Eligible to work in the U.S. with no restriction