

# Christopher Nguyen

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[Portfolio](#)

[Linkedin](#)

[Github](#)

**SKILLS** React, Redux, JavaScript, Python, Node.js, Express.js, Ruby, Ruby on Rails, PostgreSQL, HTML5, CSS, jQuery, MongoDB, AWS, D3.js, RESTful API, AJAX, Git, Heroku, Webpack

## PROJECTS

**Etzieees** | Ruby on Rails | PostgreSQL | React | Redux

[live](#) | [github](#)

*Tribute to the E-commerce website Etsy.com, which focuses on handmade or vintage items and craft supplies*

- Implemented user, product, and shopping cart CRUD features through an integrated customized database using Active Record and PostgreSQL for greater reliability and stability
- Integrated React Hooks with useEffect and useState to streamline functional components and refactor code allowing optimized load times and better maintainability
- Linked Rails backend to AWS S3 for image storage and management to reduce server load and allow scalability
- Created custom search filters for easier navigation and product lookup to enhance user experience
- Built higher order components with React-Router and encrypted user credentials using BCrypt for a secure and seamless user authentication interface

**Monster Mayhem** | MongoDB | Express.js | React | Redux | Node.js

[live](#) | [github](#)

*A team-built online multiplayer turn-based action game featuring classic horror film characters*

- Led the team in backend development utilizing MongoDB and Mongoose ODM to map results of database queries onto JavaScript objects for easier data manipulation
- Leveraged JSON Web Tokens for stateless user authentication when users create a team and join a game
- Designed popup modals and integrated layout components for a clean and efficient web game application
- Constructed validations at the model level by leveraging the Validator.js library to ensure the inclusion of email and password upon user sign-up or login

**MoneyTree** | JavaScript | HTML5 | CSS | D3.js

[live](#) | [github](#)

*Data visualization application of average Software Engineer salaries across popular metropolitan cities in the United States*

- Incorporated custom movement, gravity, and object collision to provide a physics engine that allows bubbles in the application to interact with each other
- Implemented DOM manipulation via D3 selections to create an alluring seamless experience to retrieve data
- Designed a custom filter that classifies each bubble by city for easier data access and increased data visibility

## EXPERIENCE

**Clinical Laboratory Associate** | Guardant Health | May 2018 - Oct 2019

- Created and revised Standard Operating Procedures to accurately reflect the LUNAR (Liquid biopsy Using Next-generation sequencing to Assay high-Risk patients) assay
- Conducted automated DNA extraction, library preparation, enrichment, and sequencing on patient blood samples for detecting early-stage cancer and recurrence of diseases
- Conveyed improvements to the Software Engineer team to ensure LUNAR's Assay Control Software was bug-free
- Trained new hired Clinical Laboratory Scientists and Clinical Laboratory Associates on the LUNAR assay workflow

**Clinical Laboratory Associate** | Counsyl | Oct 2015 - Oct 2017

- Led the Saturday shift by delegating tasks for processing paper requisitions, blood, saliva, and pre-extracted DNA specimens
- Oversaw patient sample storage management, purging, and archiving responsibilities to maintain accordance with New York and states regulations

## EDUCATION

**App Academy** - Immersive software development course with focus on full stack web development

2020

**San Francisco State University** - B.S. Kinesiology

2015