

# DANA ROCHA

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## RELEVANT EXPERIENCE

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### Allen Institute

Seattle, WA

Software Engineer Intern – [GitHub](#) | [Demo](#) | [PyPI](#)

Sept 2022 – Present

- Built a website that contributes to open source science by sharing neuroscience data with the public
- Designed a front-end user interface of React components that queries the Code Ocean REST API
- Contributed to an open source Python package that allows users to easily access the Code Ocean REST API
- Implemented unit tests, test automation, and continuous integration through GitHub Actions and Jest
- Established and updated project documentation to improve communication within a 6 member team
- Integrated with a team of five engineers and product manager by participating in Agile practices

### Merck & Co.

Boston, MA

Informatics Intern

Jan 2020 – Aug 2020

- Utilized SQL, Pipeline Pilot, and Pilot Script to query data from public and internal databases
- Trained machine learning models to identify and predict relationships between 500,000+ compounds and genes
- Created interactive Spotfire data visualization dashboards for 200,000+ compounds and genes
- Delivered compound sets to three drug discovery research programs in Chemical Biology for initial testing
- Presented data insights to 50+ chemists and data scientists within Chemical Biology and Informatics

## TECHNICAL SKILLS

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**Languages** Python, JavaScript, HTML, CSS, SQL, R

**Libraries & Frameworks** React, Material UI, Google Firebase, Flask, Materialize, Bootstrap

**Tools & Environments** Visual Studio Code, Git/GitHub, UNIX/Linux, Docker, PyCharm, DBeaver, Oracle DBMS, RStudio

**Databases** Google Firestore, MongoDB, PostgreSQL

## TECHNICAL PROJECTS

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### Room Reservation System, Capstone project – [GitHub](#) | [Demo](#)

Aug 2022

Web application to track room reservation information created with JavaScript, React, Google Firebase

- Wrote back-end logic, database endpoints, and user authentication
- Implemented algorithms to create and delete reservations, and prevent reservation double-booking
- Built a responsive user interface of three pages with Materialize and React Router
- Collaborated in a team of two to deliver web app

### Inspiration Board, Group project – [GitHub](#) | [Demo](#)

Jul 2022

Web application where users can leave inspirational “sticky notes” on digital boards using JavaScript, React, Python, Flask

- Teamed with three classmates to deliver an interactive web app to create, read, delete boards and cards
- Developed two React components to display notes for a selected board and allow users to like or delete a note
- Configured and deployed the front-end code base to Heroku

## EDUCATION

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### Ada Developers Academy

Seattle, WA

Full Stack Web Development & Computer Science Fundamentals

Mar 2022 – Jan 2023

Technologies: Python, JavaScript, SQL, PostgreSQL, Flask, React

### Northeastern University

Boston, MA

B.S. in Biochemistry, M.S in Bioinformatics

2018, 2020

## ADDITIONAL EXPERIENCE

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### Northeastern University

Remote

Student Facilitator Volunteer

Feb 2021 – Dec 2021

- Led 40+ graduate students through weekly online workshops and discussions around leadership competencies
- Facilitated bi-weekly virtual meetings with a team of four to plan workshops, activities, and presentations

### Orig3n Inc.

Boston, MA

Research Assistant Intern

Jul 2017 – Dec 2017

- Maintained and characterized stem cell cultures with fluorescence microscopy and flow cytometry
- Promoted products at four external events resulting in 50+ new clients