

DANA ROCHA

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RELEVANT EXPERIENCE

Allen Institute

Seattle, WA

Software Engineer Intern – [GitHub](#)

Sept 2022 – Present

- Build a website that allows scientists to share imaging data and contribute to open source science
- Design a front-end user interface of four React components that query a third-party data platform REST API
- Implement unit tests, test automation, and continuous integration through GitHub Actions and Jest
- Establish and manage project documentation to improve communication within a 6 member team
- Integrate with a team of five engineers and product manager by participating in Agile practices

Merck & Co.

Boston, MA

Informatics Intern

Jan 2020 – Aug 2020

- Delivered compound sets to three drug discovery research programs in Chemical Biology for initial testing
- 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
- Presented data insights to 50+ chemists and data scientists within Chemical Biology and Informatics

TECHNICAL SKILLS

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, PyCharm, RStudio

Databases PostgreSQL, Oracle DBMS

TECHNICAL PROJECTS

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

Aug 2022

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

- Constructed back-end logic, endpoints, user authentication using Firestore and Firebase
- 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, Ada 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

Ada Developers Academy

Seattle, WA

Full Stack Web Development & Computer Science Fundamentals

Mar 2022 – Jan 2023

Northeastern University

Boston, MA

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

2018, 2020

ADDITIONAL EXPERIENCE

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