

DANA ROCHA

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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, Docker, DBeaver, Oracle DBMS, RStudio

Databases Google Firestore, MongoDB, PostgreSQL

RELEVANT EXPERIENCE

Allen Institute

Data Analyst I

Seattle, WA

Mar 2023 – Present

- Automating an internal data processing workflow using Apache Airflow and shell scripts
- Spearheading the development of a Shiny application to facilitate and streamline weekly data analysis for end users
- Maintain and deploy a suite of 11+ Shiny applications that centralize data extraction, visualization, and analysis
- Develop and maintain Docker Images and Dockerfiles for team and cross-team use

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

Aug 2022 – Jan 2023

- Developed an [MVP web application](#) from end-to-end to learn the capabilities and limitations of a REST API that will enable the organization to publish data openly and publicly for the first time
 - Designed a responsive front-end user interface of React components and a service layer that queries a REST API
 - Gathered and clarified requirements from stakeholders, created wireframes for web application design
 - Implemented unit tests, test automation, and continuous integration through GitHub Actions, Jest, and ESLint
- Contributed to an [open-source Python package](#) that allows users to easily access and utilize the Code Ocean REST API
- Created a feature for an [open-source Python package](#) that allows users to write validated data schemas to JSON files
- Integrated with a team of five engineers and a product manager by participating in Agile practices

Merck & Co.

Informatics Intern

Boston, MA

Jan 2020 – Aug 2020

- Supported three drug discovery teams by training machine learning models to predict key compounds for initial testing
- Utilized SQL, Pipeline Pilot, and Pilot Script to build data pipelines to query data from public and internal databases
- Created interactive Spotfire data visualization dashboards for 200,000+ compounds and genes
- Presented data insights to 50+ stakeholders within Chemical Biology and Informatics on a monthly basis

TECHNICAL PROJECTS

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 develop and deliver the project

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

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

VOLUNTEER EXPERIENCE

Ada Developers Academy

Volunteer Interviewer

Remote

Mar 2023 - Present

- Performed 10+ application essay reviews and final interviews with applicants

EDUCATION

Ada Developers Academy

Full Stack Web Development & Computer Science Fundamentals

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

Seattle, WA

Mar 2022 – Jan 2023

Northeastern University

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

Boston, MA

2018, 2020