DANA ROCHA

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RELEVANT EXPERIENCE

Allen Institute   **Seattle, WA**
Software Engineer Intern   *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 four 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

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, DBeaver, Oracle DBMS, RStudio
Databases   Google Firestore, MongoDB, PostgreSQL

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