## **DANA ROCHA**

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## **TECHNICAL SKILLS**

Languages & Frameworks: Python (Apache Airflow, Flask), JavaScript (React, Material UI), HTML, CSS (Materialize), SQL, R Tools & Environments: Visual Studio Code, Git/GitHub, Unix/Linux, Docker, RStudio, Firebase

Databases: Google Firestore, MongoDB, PostgreSQL

## **WORK EXPERIENCE**

Seattle, WA **Allen Institute** 

# Data Analyst I - Allen Institute for Brain Science

Mar 2023 - Present

- Designing and implementing an automation solution for an internal cloud-based data processing pipeline
  - Automating workflow processes by replacing all manual steps with Apache Airflow, Python, and Bash
  - Collaborating with the software engineering team to refine design decisions and ensure scalable, efficient solutions
- Developed a user-friendly Shiny web application, optimizing weekly data analysis by 30% through automated data updates and expedited access to metadata across multiple modalities
- Enhanced data accessibility and user experience by implementing feature improvements and deploying 11+ Shiny web applications that centralize data extraction, visualization, and analysis
  - Worked with stakeholders to understand feature requests and verify implementation choices support user needs
- Planned and led internal initiatives and events for 2024-2025, fostering a supportive work environment and aligning with company goals

## Software Engineer Intern - Allen Institute for Neural Dynamics - GitHub | Demo

Aug 2022 - Jan 2023

- Led the end-to-end development of a Minimum Viable Product (MVP) web application, serving as a prototype website that played an integral role in enabling the organization to publish data publicly for the first time
  - Designed a responsive front-end user interface using React components and a service layer for REST API queries
  - Gathered and clarified requirements from stakeholders, created wireframes to guide web application design
  - Implemented unit tests, test automation, and continuous integration through Jest, ESLint, and GitHub Actions
- Contributed to an open-source Python package by adding a feature that streamlines credential file creation, making it easier for users to retrieve and access their credentials
- Added a feature to an open-source Python package that enables simpler dataset search through a third-party REST API
- Integrated a new feature in an open-source Python package that allows users to create and store validated data schemas directly to JSON files

## Merck & Co.

Boston, MA

#### **Informatics Intern**

Jan 2020 - Aug 2020

- Trained machine learning models to predict key compounds for initial testing, supporting three drug discovery teams
  - Built data pipelines utilizing SQL, Pipeline Pilot, and PilotScript to extract data from public and internal databases
  - Created interactive Spotfire data visualization dashboards to visualize over 250,000 chemical compounds and genes, supporting data-driven decision-making for the organization
- Presented monthly data insights to 50+ stakeholders, fostering collaboration and ensuring alignment with objectives

#### **TECHNICAL PROJECTS**

## Room Reservation System, Capstone project – GitHub | Demo

Aug 2022

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

- Collaborated closely with a team of two to design, develop, and successfully deliver the project
- Wrote backend logic, database endpoints, and secure user authentication
- Crafted algorithms to create, delete, and prevent double-booking of reservations
- Established a responsive user interface of 3 pages utilizing Materialize and React Router for optimal user experience

## Inspiration Board, Group project - GitHub

Jul 2022

Web application where users can leave "sticky notes" on digital boards - developed with JavaScript, React, Python, Flask

- Led a team of four to deliver an interactive web app for creating, reading, and deleting boards and notes
- Constructed two React components that enable users to like or delete a note and display notes from a selected board

## **EDUCATION**

## **Ada Developers Academy**

Seattle, WA

Mar 2022 - Jan 2023

Full Stack Web Development & Computer Science Fundamentals Technologies: Python, JavaScript, SQL, PostgreSQL, Flask, React

**Northeastern University** Boston, MA B.S. in Biochemistry, M.S in Bioinformatics

2018, 2020