A close up of a sign

Description automatically generated

Dedicated full stack developer with 4+ years of experience in academic, research, and start-up settings. Currently focusing on creating methods for researchers to visualize and analyze complex, unstructured data at a medical AI startup. Seeking to further improve technical skills and impact the future of IT as a senior developer at a leading tech company.

FULL-STACK ENGINEER

CAIO BONI

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**LANGUAGES**

English, Portuguese, Spanish

**Amazon Web Services (AWS)**

Broad range of experience including serverless and containerized development

**SQL**Transforming and integrating complex, messy, domain-specific data sources

**Python**

Data visualization and workflow automation

CONTACT

EDUCATION

**BACHELOR OF SCIENCE** / Biophysics, Informatics Minor

*University of Washington, Seattle*

**June 2019**

**RESEARCH ASSISTANT**

*Nanopore Research Lab / University of Washington*

* Collaborated with researchers within the team to develop a SQL program that allowed for 3x faster data fetching within our database.
* Set up 50+ nanopore sequencing experiments to decode ion current signals and sequence DNA.

**Mar 2018 – Sep 2018**

**BIOINFORMATICS SOFTWARE ENGINEER INTERN**

*Omic / Seattle, WA*

* Designed a schema for health-related activities based on genetic information while collaborating with geneticist and developers.
* Scraped and dockerized 30+ bioinformatics tools for development.
* Streamlined CSV files using PostgreSQL to match genotypes, phenotypes, and their corresponding datapoints.
* Redesigned the initial UI/UX of our web application with React, creating a captivating and user-friendly interface.

**Feb 2019 – Jul 2019**

* Created a cutting-edge end to end clinical search database that provided visualizations and statistical data to thousands of queries.
* Imposed a virtual file explorer that switched the load from the client to the server side, improving client rendering speed by 60%.
* Increased data processing rate by implementing mission-critical API endpoints that manage key components of our web app.
* Identified and resolved bugs in critical areas within the application to increase system performance by 10-15% and decrease user response time from 2 to 0.8 seconds.
* Designed concise unit and integration tests with Puppeteer, Mocha, and Chai that allowed for automated troubleshooting.

**FULL-STACK ENGINEER**

*Omic / Seattle, WA*

**Jul 2019 – Present**

**Relevant****Classes***:* Data Structures and Algorithms - Technical Foundations in Data Science - Databases and Data Modeling

* *1st place in innovative app design development - UW Informatics Competition*

**AWARDS**

* *Dean’s List*

Fall 2018

Winter, Spring 2019

ADDITIONAL

**React** Concise code, logging/tracking, and temporal coupling prevention

KEY SKILLS

WORK EXPERIENCE

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