

Christian Jairo Sarmiento

✉ jairo25@cs.washington.edu  jairo8925  christian-jairo

Education

University of Washington, B.S. in Computer Science

Aug 2020 – Jun 2023

- GPA: 3.88/4.00, Cum Laude
- Relevant Coursework: Algorithms, Machine Learning, Security, Systems Programming, Database Internals, AI

Experience

Datadog, Software Engineer Intern — Manhattan, NY

Jun 2023 – present

- Working on the Shuffle Service team by writing Go code to help enable distributed queries on large scale data

Stripe, Software Engineer Intern — Seattle, WA

Jan 2023 – Mar 2023

- Pioneered admin UI for a new platform that moves data between Stripe and its partners using Java and React
- Designed file browser using React for files exchanged with financial partners, reducing file lookup time by 70%
- Migrated 1200 objects in an active production database to a new Mongo collection, enabling list retrieval
- Enhanced 8 charts on observability dashboard by adding 4D tagging and deploy timeline event overlays
- Wrote a friction log, a handoff document, 2 design documents, and scripts to test services in QA

Stripe, Software Engineer Intern — Seattle, WA

Jun 2022 – Sep 2022

- Improved investigation and remediation for over 210 million transactions in production by designing and creating an end-to-end transaction anomaly detection framework using Java and React
- Led collaboration with 3 teams to enable 30 payment methods to publish event consumers on a faster host set
- Detected 130,000 unhealthy transactions by creating a transaction event controller and a data export pipeline

University of Washington, Web Developer — Seattle, WA

Oct 2021 – Dec 2021

- Replaced 100% of manual photo updates on the School of Medicine's service learning website, by launching a photo upload component using React + TypeScript to support over 50 current service projects

Projects

SimpleDB

Mar 2022 – Jun 2022

- Built an RDBMS in Java, supporting ACID transactions with log-based crash recovery and rollback

Study Buddy

Apr 2022

- Achieved 2nd place in NeuraHack 2022, the neurotechnology hackathon at the University of Washington
- Designed a Flask + React web app to track a user's state of focus with the Muse 2 brain-computer interface

CPDTalks

Jul 2021 – Dec 2021

- Modernized a WordPress online learning platform into a Python + Angular web app to scale to 1500 users
- Built 2 core microservices on the backend—a user service and a program service, backed with 20 endpoints

Skills

Programming Languages

Java, Python, TypeScript, JavaScript, SQL, C/C++

Frameworks and Tools

React, REST APIs, Git, JUnit, VS Code, IntelliJ

Libraries

NumPy