Arjun Srivastava

Software Engineer — *Palo Alto, CA*

+1 (650) 335 5909 | arj1@uw.edu | a-r-j-u-n-s | arjun-srivastava042701

Skills

- **Languages** : *Proficient* : Python, Java, JavaScript, C/C++
- **Areas** : Server-side Web Development, Data Engineering, Cloud, Automation/Scripting
- **Tools/Frameworks** : Google Cloud Platform (GCP), Apache Kafka, Redis, Quartus Prime, Apache Spark/Hadoop MapReduce, Microsoft Azure, Matplotlib, NumPy, SciPy, React.js, Django

Education

University of Washington — *Seattle, WA*

B.S. Electrical and Computer Engineering — *June 2023*

Experience

Software Engineer Intern — *Microsoft*

Redmond, WA — *June 2022 - September 2022*

• Incoming Software Engineer Intern for Cloud + AI Platform

Software Engineer Intern — *Rakuten*

San Mateo, CA — *May 2021 - August 2021*

• Worked on Rakuten Cloud Platform's Info Services Team, responsible for assisting in the transformation and normalization of product data for Rakuten's partners

• Developed data pipeline functionality in Java to pull data from Cloud Firestore/Redis to generate and add mapped category information (Google, PLA, etc.) to incoming product data before pushing to Kafka, affording better categorization options while minimizing processing time

• Wrote Python/bash CLI to automate import/export jobs on GCP Firestore and Redis, allowing for seamless data migration between GCP environments and Redis clients while eliminating the need for storage buckets

• Helped set up development environment on GCP by migrating staging data collections in Cloud Firestore, configuring workflow templates, and instantiating pipeline jobs on Dataproc to test new features before merging into staging or production

Technical Project Lead — *Society for Advanced Rocket Propulsion*

Seattle, WA — *October 2021 -*

• Project Lead for the Flight Data subteam within Avionics team on SARP (Rocket development club at UW)

• Responsible for maintaining Flight Data board, ensuring compatibility of design with other controllers on rocket, developing Python scripts to gather telemetry data on the state of the rocket pre-flight and in-flight

• Necessary telemetry includes acceleration, location (GPS), orientation, altitude, tank pressures, and temperature

• Designing system to pass data to the main flight computer via an ethernet cable that runs from our Raspberry Pi, storing data both on the board and sending to ground so we will have data to analyze for coming years regardless of communications failures

Projects

MuseShare — *Seattle, WA*

Software Developer — *2021-2022*

- Full stack developer for MuseShare, an independent web app supporting open-source music collaboration!
- Using Django, a Python-based server-side web framework to handle all HTTP requests, file handling, server architecture, and database connections
- Using React.js library to set up front end
- Site designed to help artists easily find collaborators, samples, and projects to work on due to various filters (genre, needs, etc.)
- MuseShare

Data Migration (GCP Firestore and Redis) — *Palo Alto, CA*

CLI/Script — *Summer 2021*

- Developed a python/bash script and CLI for managed exports/imports between GCP Firestore environments and Redis clients
- Script elimates the need for storage buckets, saving money and space in GCP
- Batched import/export functionality lets users run jobs that bypass GCP's 500 operation limit, ensuring that big jobs can run uninterrupted
- Type-aware redis implementation allows user to easily import and export any keys/values between separate redis clients
- data-migration-firestore-redis