

Arjun Srivastava

Software Developer

Palo Alto, CA

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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, NODE.JS, MONGODB, MICROSOFT AZURE, MATPLOTLIB, NUMPY, SCIPY, REACT.JS, DJANGO

Education

University of Washington

Seattle, WA

B.S. Informatics

June 2023

Experience

Software Engineer Intern

Microsoft

Redmond, WA

June 2022 - September 2022

• Incoming Software Engineer Intern for Cloud Hardware and Infrastructure Engineering Team under the 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

SoulsSave

Seattle, WA

PYTHON APP

2021-2022

• Developed and currently maintain a Python app for managing savefiles in various PC videogames on the Steam platform

• Includes full graphical and command line interface supporting multiple games at once

• Features include automatic savefile backups, savefile management, corrupted file recovery, and more

• Written in pure Python

•  SoulsSave

Data Migration (GCP Firestore and Redis)

Palo Alto, CA

CLI


Summer 2021

• Developed a python/bash script and CLI for managed exports/imports between GCP Firestore environments and Redis clients

• Script eliminates 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