Alexander Chan

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Experience

Software Engineer @ Scality   October 2017-Present

Worked on building Zenko, an open-source software that allows users to manage object storage data across multiple public/private clouds using Amazon's S3 API (**scality/zenko**)

- Developed the feature to add Google Cloud Storage as one of Zenko's storage targets:
  - Achieved this by implementing an aws-sdk like client to be used into the existing code
  - Designed and implemented the client to perform requests to Google Cloud Storage's XML API
- Worked in a team to develop Zenko Orbit, the SaaS component for managing users' Zenko instances (**admin.zenko.io**):
  - Led the effort to refactor the Orbit frontend to use **Redux** in order to simplify the code base and development
  - Implemented the metrics collection and reporting feature in the Orbit backend API to allow for the displaying and visualization of instance usages in the Orbit web application
- Used **Kubernetes** to deploy and test the Zenko software:
  - Implemented and managed the Orbit deployment specifications using **Helm** charts

Projects

Personal Site   ⦿ **arekisannda/profile**

Personal profile built using **Typescript**/**React** and deployed on the serverless platform, **Now**.

OSSBench   ⦿ **arekisannda/ossbench**

An object storage services benchmarking tool.

- Implemented a tool for testing against and analyzing the performance of object storage services
- Supports AWS S3 API and Azure Blob Storage API

i3Helper   ⦿ **arekisannda/i3helper**

Helper tool for interacting with the i3 Window Manager IPC.

- Implemented commands for performing non-standard, complex, window operations

robotart   ⦿ **arekisannda/robotart**

A robotics project for competing in the 2017 **Robotart Competition**.

- Designed and manufactured a robotic arm that will produce paintings from sets of instructions
- Applied genetic algorithm and deep learning to generate the sets of instructions

Skills

Technologies: React, Redux, Kubernetes, GraphQL, MongoDB, Google Cloud Platform
Languages: Go, Javascript/Node.js, Typescript, Python

Education

University of California, Irvine   2010-2014

Bachelor of Science in Computer Science