

Project number: P37

Project Client: Strong Compute

Project Title: UG-USYD-08: Strong Cloud Pricing Analytics - SOFTENG/COMPSCI

Project Description and Scope:

Strong Compute is offering a number of projects that can lead to incredible career opportunities. We provide companies with 10x-1000x AI/ML training speed ups. We welcome all students as long as you are committed to a difficult but rewarding industry experience. If you're new to any of these ideas, please read the provided resources before our first meeting.

This is a rare opportunity to provide web development for deep learning use cases, giving you the opportunity to develop full stack web development and DevOps skills.

\$450B is spent a year on Cloud Computing, growing to \$1.8T by 2028.

Much of this is spent highly inefficiently, with 4x-100x cost reductions possible in many circumstances.

Many companies accidentally leave development instances on costing \$10,000-\$60,000/month in wasted usage. This is due to the convoluted management interfaces.

Today, datacentres use 1% of the world's electricity. It will be 7% by 2030. This project is a serious opportunity to bring this down.

Expected outcomes/deliverables:

This project is to build a simple web application that shows in real time current cloud usage. You will be:

Building a simple real time billing dashboard.

Querying in real time the APIs for major cloud vendors, to determine current usage levels.

For some edge cases without API access, real time web scraping may be required.

This is a core opportunity with Strong Compute and a good result will likely lead to a career opportunity.

Specific required knowledge, skills, and/or technology:

Assumed/required knowledge and skills: Python and/or C, Web Development. Students with good programming ability who are able to solve problems.

Eligibility: D or HD average among students in a team.

Assumed/required: Machine Learning, Artificial Intel

Resources provided by the client:

Our website: <https://strongcompute.com/>

AWS CURS: <https://docs.aws.amazon.com/cur/latest/userguide/what-is-cur.html>

Related general fields/disciplines:

Algorithms;Web Development;Software Development;