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Cloud Bursting and Cube Processing

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Computer and Information Science Undergraduate Project Topics and Ideas

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Title:

Cloud Bursting and Cube Processing

Author:

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Difficulty:

Hard

Specialization:

Computer Architecture

If other, please specify:

Most Appropriate Course:

Project II

Brief Description:

Build and configure cloud bursting solutions

Number of students needed:

2

Outcomes and Deliverable:

Implemented and tested cloud bursting solutions

Skills Required:

Computer Architecture, Python Programming, Network Infrastructure

Available Resources:

Program Goal:

CISC 1.4: Deploy Solution CISC 2.2: Software Platform, CISC 2.3: Networking CISC 4.1: Written Communication CISC 5.1: Collaborative Work Practices

Student Learning Outcomes:

1a: The student should be able to analyze a problem in a manner that facilitates the design of its solution., 1b: The student should be able to apply relevant principles of computing during their analysis of a problem., 2a: Student is able to create a formal software design based on a given

set of requirements., 2b.:Student is able to develop a software solution from a formal design specification., 5b: Ability to collaborate as an effective team member.