California State University San Bernardino

School of Computer Science and Engineering

### CSE 695 Graduate Independent Study

**Date**

November 26, 2019

**Time**

11:00am

**Location**

Jack Brown 361

**Title**

VPS Cloud Services via Digital Ocean

**Student**

Chaz Hampton

**Advisor**

Dr. Arturo I Concepcion

**Abstract**

Learning new systems and framework is at the core of Computer Science study. Laravel introduced in 2016 provides a great layer of security protecting against all too common attacks seen in media today making it perfect for cloud systems. A working cloud Virtual Private Server (VPS) with enhanced security measures has been implemented and tested to ensure user’s data and accounts are secured. The cloud server is built from scratch on a cloud instance via Digital Ocean. Laravel and PHP were used on this cloud server to create and manage student exams and calculate all relevant statistics for the exams. With the student creation site hosted on a cloud server it is reliable to not crash as a static server may.