**California State University San Bernardino**

**School of Computer Science and Engineering**

**CSE 575 Internship in Computer Science**

**Date**

**Friday, November 22, 2019**

**Time**

**2:00 PM**

**Location**

**JB 360**

**Title**

**MITRE Software Engineering Internship**

**Student**

**Brett Evrist**

**Advisor**

**Dr. Hou**

**Abstract**

**I will be presenting on my summer internship work at the MITRE Corporation in San Diego, CA. In my position of Software Engineering Intern, I worked on a variety of projects, Including a DevSecOps vulnerability analysis pipeline, and a trade study on the real-world performance of a variety of networking protocols (TCP, NORM, ZERO, QUIC) under long range wireless networks. These projects found that CI/CD pipelines can be effective tools in reducing software vulnerabilities during development, as well as demonstrating the poor performance of the TCP networking protocol in wireless networks, respectively. In my work I utilized technologies such as Docker, Git, tc-netem, and VMWare ESXi.**