CMPT 479 - D100 Spec.Topics/Computing Systems

Instructor(s): Steven Ko

SFU Burnaby

Calendar Objective/Description:
Spec.Topics/Computing Systems

Instructor's Objectives:
This is a project-based course that looks at automated software validation/testing techniques for programs written in Rust. The course consists of lectures by the instructor, paper readings/presentations by students, and projects carried out by students. The course first reviews the Rust programming language as well as automated software validation/testing techniques such as symbolic execution, fuzzing, and property testing. The course then reads and discusses a number of papers related to those validation/testing techniques. Students are expected to propose a project in consultation with the instructor and carry it out to completion.

Prerequisites:
see go.sfu.ca

Grading:

Academic Honesty Statement:
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).