

Teaching Statement

Artificial Intelligence is changing the ways we live, work, and learn. My teaching expansion strategy is to tap into my students' full potential by encouraging curiosity and confidence to keep up with the modern world of this evolving technology and its transformative potential in education. In addition to reassuring students to develop essential skills as they learn to design, build, and evaluate digital systems, I inspire my students to think creatively and innovate. Before they can be expected to create new knowledge and contribute to future innovation, students need a strong fundamental grounding in the basics of the foundational computer science skills. I promote higher order thinking skills where students apply knowledge and transfer it to others through clustering them in small groups to discuss and solve problems. With this approach, students learn from one another, and a diverse set of perspectives are shared and discussed before a final solution is implemented. In all my courses, I am committed to a learning environment that makes active learning possible by encouraging students to think more critically, become more engaged and to produce a deeper understanding.

My classroom teaching strategy has two facets: 1) interactive, and 2) connecting theory to practice. I have found that highly interactive classroom can be highly effective in presenting new and complex material. However, in large classrooms (120 students), scaling student participation is challenging. Game-based learning platform is a good solution to engage students by incorporating original, collaborative, and hands-on programming assignments and class activities using the Kahoot and Repl.it platforms I hold daily Kahoot quizzes that involve recapping material, and answering questions that students have in a fun and engaging way. I use real time coding using repl.it, student can better grasp theory with hands-on coding in class.

While classroom teaching is important, most learning happens outside of the classroom. Creating interesting and challenging homework assignments is a crucial component of my teaching. I have been committed to learner-driven education, which enables students to contribute to their own learning by creating and sharing learning content. I defined open pedagogy to help students thrive outside the classroom. My open pedagogy is implemented with technology such as: students develop tutorial videos **Coogtube** teach and inform other students; students create quiz questions to deepen their learning on data structure topics, explaining how principles are studied in class by asking questions in Kahoot followed by a tiny learning video (TLV) to explain the answer; Every Friday, I use virtual classroom- using zoom-, as an innovative active learning strategy where students are challenged by questioning them, requiring problem-solving and critical thinking. **Fun Fridays** engage students and require them to be active, creative, and get involved in the discussion of the solution while getting real time assistance. The deliverable is a YouTube video link sent at the end of the session; and students had to participate in at least three online competitions. **Competitions** push students to study more efficiently and, through this engagement, help with long-term learning and retention.

In conclusion, I maintain a positive teacher-student relationship and a strong commitment to teaching, engaging digital learners, and reinventing my teaching strategies using new technologies and methods: My good memory helps me establish a good and personal relationship with my students, as most of the time I call them by their names. It is a matter of great importance to me that I utilize advantages in the classroom like peer learning and gamification to help the students learn more effectively. It is evident that these practices work. I received many awards for my superior teaching. I will continue to follow my **passion**, teaching students and help introducing them to the exciting world of computer science and technology. I will continue to learn from my students love, persistence, and self-improvement.