

EDUCATION

Carnegie Mellon University, School of Computer Science

Masters of Education Technology &
Applied Learning Science (METALS)
Aug 2019, GPA: 3.76/4.33

University at Buffalo

B.A. Computer Science
May 2018, *Cum Laude*

SKILLS

Learning Science

Cognitive Task Analysis (CTA), E-Learning,
Backward Curriculum Design, KLI

Design

Contextual Inquiry, Interviews,
Affinity Diagramming, Storyboarding,
Prototyping, Usability Testing

TOOLS

Programming

JavaScript, Python, React.js, p5.js, Git

Instruction Design

OLI, CTAT (Intelligent Tutors)

Visual Design

Figma, Adobe XD, InDesign, Illustrator,
Animate, Inkscape, GIMP

COURSEWORK

Learning Media Design
Learner Experience Design
Personalized Online Learning I & II
E-Learning Design
Tools for Online Learning
Design for Educational Games
Ed. Goals, Instruction, and Assessment

HONORS/AWARDS

METALS Merit Scholarship 2018-2019
University at Buffalo Provost Scholarship
2014-2018
Pledge of the Computing Professional 2018

PROJECTS | Carnegie Mellon University, Pittsburgh PA

Capstone Project

Client: Renaissance Learning, Inc. (RL)

Jan 2019 - Aug 2019

Collaborated with RL teams to develop new district admin dashboard
Supported team of 5 to create product to meet needs of users & RL
Coordinated 37 stakeholders for research and user-testing sessions

Impostor Syndrome Educational Game

Mar 2019 - Jun 2019

Designed multiplayer card game with event-driven gameplay
Conducted 4 structured interviews for authentic event design
Tested 7 times to analyze game mechanics for alignment

Debugging Tutor

Apr 2019 - May 2019

Conducted 6 CTAs with novice, mid-ability, and expert programmers
Developed sequence model based on CTAs, reviewed model with expert
Designed intelligent tutor to scaffold steps of debugging process

Phonics Tutor

In Collaboration with: The CMU Children's School

Nov 2018 - Dec 2018

Conducted CTA observation with class of kindergarteners
Designed cognitive model and student interface for intelligent tutor
Ran 3 testing trials, resulting in revised cognitive model

Career Oriented ESL Curriculum

In Collaboration with: Journey's End Refugee Services

Oct 2018 - Dec 2018

Interviewed stakeholder to contextualize learners and environment
Established a set of educational goals based on the population needs
Developed one week of backward designed assessments & instruction

Interview Preparation E-Learning Module

Aug 2018 - Oct 2018

Synthesized learning goals via theoretical CTA and structured interview
Developed instructional content to improve on existing course materials
Analyzed pre/post assessment data, found 10% learning gain

RELEVANT EXPERIENCE

Head Teaching Assistant & Senior Research Aide

University at Buffalo, Buffalo NY

May 2016 - May 2018

Designed initial content & activities for *How the Internet Works* course
Created video content for flipped-style delivery on internet-class.org
Oversaw approximately 40 TAs and Faculty on weekly basis
Revised curriculum using data from Fall 2016 to improve Fall 2017 course
Scaled course from 440 to 660 students by shifting to seminar-style