Charles Clayton **Diffrient**

SOFTWARE ENGINEER · EDUCATION ENTHUSIAST

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Education

B.S. in Computer Science
Rexburg, Idaho

BRIGHAM YOUNG UNIVERSITY—IDAHO
April 2011 - July 2014

- Cumulative GPA of 3.42
- Created adaptive testing engine for capstone senior project
- Lead design effort for a graduation planner system for students as part of a Software Engineering class
- Developed LabTab, a grading system for Chemistry professors as part of a Software Design and Development class

M.Ed. in Educational Psychology (Instructional Design and Educational Technology)
Salt Lake City, Utah

UNIVERSITY OF UTAH
August 2017 - April 2019

- Worked with team, leading development effort, to create new training for Utah Foster Care
- Learned about learning theories, instructional design techniques, and educational software

Experience

Sr. Software Engineer
Salt Lake City, UT

INSTRUCTURE
August 2014 - Present

- Developed features in the Canvas learning management system
- Worked on front-end architecture including developing best practices
- Created internal training for JavaScript testing and Accessibility
- Coordinated efforts to manage open source software
- Used React, Redux, Jest, and Ruby on Rails

Senior Student Software Engineer
Rexburg, ID

BRIGHAM YOUNG UNIVERSITY — IDAHO
December 2012 - July 2014

- Assisted full-time and student employees with development projects in an Agile process
- Performed code reviews to help maintain good coding standards
- Designed and developed a custom REST API for the university's learning management system

LMS Developer and Software Change Management Lead
Rexburg, ID

BRIGHAM YOUNG UNIVERSITY — IDAHO
April 2012 - December 2012

- Developed innovative client-side web applications to aide students and faculty
- Created customized workflow solutions to assist in the internal development process

University Support Administrator
Rexburg, ID

BRIGHAM YOUNG UNIVERSITY — IDAHO
April 2011 - April 2012

- Provided advanced support to faculty using the university's learning management system (Brainhoney)
- Facilitated training for both Helpdesk and Faculty Technology Center Assistants
- Created customized teaching solutions using web technologies