

# 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
- Developed LabTab, a grading system for Chemistry professors as part of a Software Design and Development class

## Experience

### Software Engineer

Salt Lake City, UT

INSTRUCTURE

August 2014 - Present

- Develop features in the Canvas learning management system
- Organize biweekly intradepartmental training
- Coordinate efforts to manage open source software
- Use JavaScript, HTML, and CSS to create new features

### 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

## Presentation

### Artificial Intelligence in Education

Salt Lake City, UT

PANDAMONIUM 2015 (INTERNAL CONFERENCE AT INSTRUCTURE)

January 2015

- Introduced attendees to various ways AI can be applied to assisting education

## Writing

### MEAN Web Development

Book

TECHNICAL REVIEWER

2014

- ISBN: 978-1783983285

### React Design Patterns and Best Practices

Book

TECHNICAL REVIEWER

2016

- ISBN: 978-1786464538