

# Andrew Carr

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## Education

Brigham Young University - 3.78  
B.S. Applied and Computational Mathematics

April 2018

## Relevant Course Work and Skills

**Math** | Algorithm Design and Optimization (Python), Mathematical Analysis (Python), Statistics, Cryptography, Numerical Methods (MATLAB), Probability, Linear Algebra

**CS** | Data Structures (C++), Operational Decision making (Python), Competitive Programming, Relational Databases (SQL), Versioning Control, Web Programming

## Work Experience

### Full-Stack Web Developer - Private Capital Group

May 2016 – Current

- Developed super powered web solutions to significantly increase employee effectiveness through the use of automated systems, resulting in over \$200,000 in annual savings
- Collected, cleaned, and analyzed internal and external data to pinpoint areas of business strength and weakness

### Research Assistant - BYU Math Department

Sept 2015–Apr 2016

- Discovered proper boundary condition equations to more accurately model pressure waves using numerical methods, resulting in a method of approximation that was 3x faster than previous methods
- Collected data on models, and tested our results for stability and consistency
- Presented research findings to experts, professors and fellow students

### App Assurance Intern - Domo Inc.

Feb–Apr 2016

- Combined technical knowledge with business acumen to ensure apps were useful to consumers and accurate in their functions
- Personally created 160 Domo business apps, specifically designed to answer customers' business questions

### IT Lab Research Fellow - Carnegie Mellon University

June–Aug 2015

- Excelled in Data Science course work earning top marks
- Analyzed data and developed custom web games to assist refugees learn English
- Presented secondary research to peers and mentors

### Senior Web Developer - BYU Studies

Jan 2014–Mar 2015

- Led a web team of 3 in maintaining a website with thousands of unique visitors, increasing traffic and profitability by over 38%

## Other

1<sup>st</sup> place BYU Hackathon  
Runner up BYU spring research conference  
Excellence in Mathematics award

Nov 2016  
March 2016  
April 2015