Benjamin R. Hansen

Project Experience

Team Lead April 2020 - July 2020

- Supervised remotely a team of four in the evaluation and design of a class-wide mobile app interface
- Lead 1-hour meetings twice a week along with daily online communication ensuring project progress
- Played a vital part in achieving for five deliverables a class-average of 94.7%

Research & Creative Works Conference

March 2020 - April 2020

- Investigated with Erlang a novel way to factor numbers, establishing a theorem and proof of its validity
- Presented research via a custom website with video explanation and mathematical equations in LATEX

Mathematica Model — Physics Project

March 2020 - April 2020

- Calculated light refraction indices of different liquids using Mathematica
- Prepared report through LATEX on mathematical findings

R Data Preparation

September 2019 - December 2019

• Developed over half the code in a team project of three to prepare dataset for machine learning

Education

Bachelor of Science in Computer Science

Planned: July 2021

Brigham Young University — Idaho

Rexburg, ID

- **GPA**: 3.97
- Completed 6 semesters of math including biostatistics, calculus, and discrete mathematics
- Actively used Erlang for 3 semesters and C/C++ for 5 semesters

Work Experience

Research Assistant

November 2019 - February 2020

Remotely

- University of Idaho in Idaho Falls
 - Researched application of new Azure Kinect DK camera
 - Integrated C code with camera API to record body motion
 - Reported each week on progress, including slide presentations

Full-Stack Web Developer

September 2018 - December 2019

White Glove Construction

Remotely

· Headed ground-breaking development in new web service using PHP, JavaScript, and jQuery

Computer Science Tutor

April 2018 - December 2019

Brigham Young University — Idaho

Rexburg, ID

• Taught 132 students (1,211 appointments) in C++, Erlang, Electrical Engineering, and Physics

Teacher Assistant

September 2019 - December 2019

Brigham Young University — Idaho

Rexburg, ID

- Advised Discrete Mathematics class of 35 students in the study skills crucial to excel in the course
- Applied topics with Erlang, building for students an initial foundation of functional programming

Skills

- Expert:
 - Erlang (largest module: primes.erl, 1,563 lines; experience: 1½ years; total lines: 6,175)
 - C++ (largest program: bst.h, 1,569 lines; experience: 2½ years; total lines: 22,682)
- VIM (2 years)
- **Proficient**: BASH/ZSH (total lines: 204), C, JavaScript, Python, R, LATEX