

Benji Andrews

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EDUCATION

Colby College, *Bachelor of Arts*

Waterville, Maine, **May 2022**

GPA: 3.58

Major: Computer Science

Relevant Coursework: Neural Networks, Data Visualization and Analysis, Computer Networks, Linear Algebra

Mount Blue High School, *Diploma*

Farmington, Maine, **June 2018**

Valedictorian

EXPERIENCE

Colby INSITE Lab, *Research Assistant*

February 2021 - Present

- Exploring and developing a system for automated accessible STEM images (such as charts and diagrams) through an approach that blends computer vision, machine learning, and natural language captioning
- Collaborating with the Colby advanced research computing department to utilize a GPU cluster for remote neural network training
- Meeting weekly with supervising professor and fellow research assistants to provide updates on progress, explain challenges, and brainstorm solutions
- Presented original development work at Colby College's undergraduate research symposium

Colby MuleWorks Innovation Lab, *Creative Technician*

September 2018 - Present

- Participating in the daily operation of a student-focused makerspace, including equipment maintenance and purchase decisions
- Assisting students and faculty with the use of laser cutters, 3D printers, 3D scanners, and VR applications for personal and research projects
- Collaborated to develop a video-based course designed to teach new creative technicians to use and maintain available equipment

Colby College Computer Science Department

CS Teaching Assistant for Computational Thinking: Visual Media Applications

September - December 2020

- Mentored and advised 50+ students in Colby's introductory computer science course taught in Python in an open, remote "office hours" style environment
- Honed on-the-spot problem solving by guiding students through specific errors and structural issues

CS Tutor for Computational Thinking: Visual Media Applications

September - December 2020

- Provided one-on-one advisory and assistance for new computer science students with programming projects and course topics
- Reinforced understanding of Python principles/practices
- Developed a pedagogy for introducing newcomers to programming

TECHNICAL SKILLS

- Extensive knowledge of: Python (particularly numpy, matplotlib, tensorflow, pandas), Java
- Familiarity with: Go, C, VHDL, React Native, Unity
- Proficient in Autodesk CAD programs (AutoCAD, Inventor, Fusion 360)
- Trained in the operation of various models of 3D printers and laser cutters

INTERESTS

- Volunteering at Waterville Public High School, assisting their FIRST robotics team with programming
- Member of the Colby Improv Club
- Puzzle Solving: Competitive Rubik's Cube solving, in-competition personal best time of 15.58 seconds