

BRIAN COOPER

Senior Computer Science Student at University of Minnesota

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EXPERIENCE

Undergraduate Research Assistant - Interactive Visualization Designer & Programmer

University of Minnesota | June 2019 - Present

Collaboration with Professor Eric Shook and other researchers in a nationwide team across the United States under the National Science Foundation's Hour of Cyberinfrastructure training program.

Design and develop interactive visualizations using JavaScript and the D3.js data manipulation library. Create visualizations for lessons that teach concepts related to big data, computational thinking, and spatial thinking, among other STEM concepts. Write Python scripts and code to augment the lessons. Integrate visualizations into Jupyter Notebooks with various UI/UX extensions and modifications. Use Adobe Illustrator to generate SVG components for use in interactive visualizations.

Cash Office Associate

Mall of America | March 2018 - September 2019

Balanced mall vault, assisted associates with cash drawers, and performed maintenance on cash recycler machines. Prepared daily bank deposit and audit coupons.

Cash Control Team Lead

Valleyfair Amusement Park | April 2018 - September 2018

Assisted supervisors with leading the cash control team at Valleyfair. Balanced park vault and regulated employee cash bags. Maintained accounting spreadsheets for various park divisions. Performed daily cash recycler pickup and balanced checks sent to the park.

Graphic Designer

Colorado State University | September 2017 - March 2018

Created various visual media for Off-Campus Life at Colorado State University. Designed publications such as posters, brochures, and digital media in an effort to inform students and faculty about Off-Campus Life programs. Made extensive use of Adobe Photoshop, Illustrator, InDesign, and Premiere.

Radio Technician

Sure-Response | March 2016 - May 2017

Programmed and installed communication radios and systems for nursing homes, as well as Bed Bath & Beyond and buybuy BABY stores. Packaged and shipped radios to customers. Managed inventory and packing slip orders.

EDUCATION

University of Minnesota - BS Computer Science & Mathematics, Physics minor

Fall 2018 - Spring 2020

- ICPC
- Association for Computing Machinery
- Cryptocurrency Club
- Environmental Student Association

Normandale Community College - AS Computer Science

Fall 2016 - Spring 2018

- 2015-2016 post-secondary enrollment during high school
- Moved to Colorado for fall 2017 semester to attend Regis University
- Graduated in spring 2018

Regis University - BS Computer Science

Fall 2017

- 2015-2016 post-secondary enrollment during high school
 - Moved to Colorado for fall 2017 semester to attend Regis University
 - Graduated in spring 2018
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VOLUNTEER

Food Bank for Larimer County

November 2017

- Swept, mopped, and cleaned food bank building and surrounding area
- Assisted community guests with questions
- Restocked food and goods as needed
- Checked food for quality

Colorado State University Student Education Garden

September 2017 - December 2017

- Tilled, sowed, watered, and maintained fruits and vegetables
- Assisted with shipments to local food bank (Food Bank for Larimer County)

Loaves and Fishes

March 2016

- Prepared and served meals
- Cleaned and maintained kitchen