

Ryan Slocum

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EDUCATION

University of Colorado Boulder

Aug 2020–May 2024

Bachelor of Science, Computer Science – 3.98 GPA

Boulder, CO

- Minor in Leadership Studies
- Recipient of President Joseph A. Sewall Scholarship
- Presidents Leadership Class Scholar

TECHNICAL SKILLS

Languages: C#, JavaScript, Python, MySQL, MongoDB, C++, C

Frameworks: Node.js, Express.js, .NET Core

Developer Tools: Git, Docker, Visual Studio, VS Code

Hardware: 3D Printing, SolidWorks (CSWA), Arduino, Soldering, Digital Logic, Circuit Design

EXPERIENCE

Software Engineer Intern

May 2021 – Aug 2021

Accu-Precision

Littleton, CO

- Developed two C# desktop applications that saved hours of manual entry in inspection each week
- Added post-processor safety measures to CNC lathes and mills to prevent expensive machine crashes
- Wrote more than ten MySQL stored procedures to improve efficiency in operations and accounting

Research Assistant

Feb 2022 – Present

University of Colorado

Boulder, CO

- Working on NASA virtual reality project in a Bioastronautics lab to produce astronaut training simulation
- Developing player feedback menus in Unity and C# to collect player data
- Implementing server communication using MongoDB and Node.js for long-term data storage

Teaching Assistant

Aug 2021 – Dec 2021

University of Colorado

Boulder, CO

- Taught 30 freshman in first-year Engineering Projects course
- Offered expertise in prototyping, Arduino, electronics, and robotics software development

PROJECTS

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Collaborative Graphing Application | *Node.js, Express.js, MongoDB, Docker*

Feb 2022 – Present

- Developing a web application to allow users to place items or people on a two-dimensional graph
- Responsible for all back-end development, server communication, and deployment to develop new skills

Topographic Map Carver | *Python, Gcode, Image Processing, Algorithm Design*

Dec 2021 – Feb 2021

- Experimented with hardware by building CNC mill out of 3D printer, rotary tool, and 3d printed parts
- Wrote Python code to take topographic data in image form and convert it to Gcode toolpaths

AFFILIATIONS

Boulder Food Rescue

Mar 2021 - Present

Volunteer – Over 600 pounds of groceries rescued and delivered to Boulder's food-insecure

American Society of Mechanical Engineers

Apr 2021- Present

Treasurer – Responsible for keeping track of chapter finances and expenses, and applying for grants