

# COLTON MUMLEY

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## EDUCATION

Aug 2017 | **B.S. in Computational Modeling & Data Analytics — Virginia Tech — Blacksburg, VA**  
May 2021 | > Minors in Computer Science and Mathematics

## EXPERIENCE

May 2020 | **Software Engineer Intern — WebstaurantStore — York, PA**  
Aug 2020 | > Utilized MVC architecture in a large codebase alongside ASP.NET to create internal web applications  
> Wrote and tested API methods that were then used in the ASP.NET project and managed via NuGet  
> Underwent multiple stages of code review to ensure high quality code  
> Queried extensive databases using SQL scripts  
> Collaborated with a team of 7 and communicated with stakeholders via Agile, Git, and Azure DevOps  
ASP.NET C# JavaScript SQL Server Management Studio Agile Git Azure DevOps

May 2019 | **ServiceNow & JavaScript Developer Intern — Contender Solutions — York, PA**  
Aug 2019 | > Automated and decreased turn-around time for processing and onboarding newly hired employees  
> Developed complex, modular ServicePortal pages and widgets  
> Integrated ServicePortal frontend with various databases on the backend  
> Tested out-of-the-box functionality and created training and reference material to document findings  
> Received ServiceNow System Administrator Certification  
Angular JavaScript Sass ServiceNow

Sept 2018 | **Data Scientist — Rocketry at Virginia Tech — Blacksburg, VA**  
Sept 2019 | > Analyzed data from flight simulations to optimize the rocket's performance using machine learning  
> Integrated Arduino with Python GUI to display real-time graphs of the rocket's sensors  
> Quickly learned React to develop the team website  
React Javascript Python Arduino Machine Learning

## PROJECTS

Aug 2020 | **Invasive Plant Modeling — Virginia Tech Center for Biostatistics and Health Data Science**  
Dec 2020 | > Modeled an invasive plant species using topographical, bioclimatic, and species occurrence data  
> Predicted the probability of the species occurring at any coordinate in the U.S. with 94.9% accuracy  
> Created an interactive dashboard where users can simulate how the species would survive in a variety of conditions  
R RShiny XGBoost

Feb 2019 | **Score Spectre**  
> Created an augmented reality application for the HoloLens to help musicians read sheet music and play instruments more effectively  
> Overcame constant challenges as this project was created within 36 hours during the VTHacks hackathon, such as working with people I had never met before and learning new languages and software  
> Placed 1st in our category and top 8 in all of the event, where over 200 people competed  
Unity C#

Dec 2018 | **Recordmendation**  
Jan 2019 | > Worked closely with Spotify's API to develop and deploy a website that curates a playlist of songs based off of user-inputted criteria  
> Garnered over 30 users from countries all over the world within the first week of deployment  
React Node Heroku Spotify API

## SKILLS

**Languages** Javascript, Python, Java, C#, R, HTML/CSS  
**Technologies** React, ASP.NET, Agile, Git, Windows/macOS/Linux, Adobe Suite,  $\text{\LaTeX}$