

Justin M. Gruen

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EDUCATION:

Washington College, Chestertown, MD

Aug 2017 – Dec 2020

Double Major: Computer Science & Business

GPA: 3.54 | Bachelor of Arts

Academic Honors: Dean's List (Fall 2017, Spring 2019, & Fall 2019)

EXPERIENCE:

GIS Journeyman | Washington College GIS Program, Chestertown, MD

Aug 2020 – Dec 2020

- Introduced a 5% increase in data retention by implementing a new script to process and query incoming XML data from the Maryland Highway Safety Office.
- Reduced state crash rates by 2% through assisting in the implementation of a large-scale web application that allows any user to process, filter, and view specific crash data.
- Worked closely with the GIS Senior Developer in the back-end development and implementation of a Geo event Server enabling real-time event-based data streams to be regularly processed and filtered.
- Responsible for developing back-end software using Python and SQL to automatically store any incoming data within MySQL databases.

GIS Student Analyst | Washington College GIS Program, Chestertown, MD

Aug 2019 – Aug 2020

- Solely responsible for creating, maintaining, and continuously expanding a toolbox containing 20+ user-friendly geoprocessing tools and software that sifts, analyzes, and presents data findings in multiple formats.
- Increased deliverables production by 10% by collaborating with GIS analysts to implement Python scripts to automate manual processes.
- Augmented UI options on existing geospatial analysis scripts to allow for more user flexibility.

MultiMedia Production Center Consultant | Washington College Ideaworks, Chestertown, MD

May 2019 – Dec 2020

- Worked with a team of 4 to develop an equipment rental system using HTML, PHP, and SQL, creating a hassle-free process for 1200+ users.
- Oversaw distribution and use of engineering and video production equipment.

TECHNICAL SKILLS:

Fluent in: Python, HTML, CSS, Javascript, C#.

Proficient in: PHP, Java, Kotlin, C++.

Tools/Libraries/Frameworks: Git, Pandas, Nodejs, React, Material-UI, Stripe, Bootstrap, RegEx, ArcPy.

SELECTED PROJECTS:

Record Top Records E-Commerce Application

Sep 2020 - Dec 2020

A full-scale e-commerce application to sell musical records. It was developed using React, Nodejs, Google Firebase, Material-UI, and Stripe. Users can create accounts, view a product catalog, add items to a cart, and more.

Classroom Helper Discord Bot

Sep 2020

A discord bot developed in Javascript and DiscordJS used by Washington College professors who use Discord as a teaching resource during the COVID-19 pandemic. The bot can pull all students in voice channels provided into the teacher's channel, automatically split students into separate voice channels, and more.

Ideaworks Equipment Scheduling System

Sep 2019 – Dec 2019

Online scheduling software for students and faculty to facilitate the use of MultiMedia Production Center equipment at Washington College. It allows students to log in with their school user information and rent equipment for a block of time eliminating over-scheduling and creating an easy-to-use, hassle-free process. It is written in HTML, PHP, and SQL, using MySQL Databases and created with a team of 4 while practicing an Agile framework.

LEADERSHIP ROLES:

- Lead Video Streaming Coordinator for the Washington College Esports Club
- Lead Presentation Director for the Enactus Washington College Chapter

Aug 2019 – Dec 2020

Feb 2019 – Dec 2019