Justin M. Gruen

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EDUCATION:

Washington College | Chestertown, MD 21620   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 Department of Transportation.
- Assisted with working on countermeasures to reduce Maryland statewide crashes through the implementation of a Geographic Information System (GIS) web application that allows any user to process, filter, and view specific crash data.
- Worked closely with the GIS Applications Developer/Programmer in the back-end development and implementation of a GeoEvent Server enabling real-time event-based data streams to be regularly processed and filtered.
- Developed 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 displays 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
- Oversaw distribution and use of engineering and video production equipment.
- Assisted faculty in teaching students how to use engineering equipment through fun robotics projects.

TECHNICAL SKILLS:

Fluent in: Python, HTML, CSS, Javascript, & C#.
Proficient in: Typescript, Java, PHP, Kotlin, & C++.
Tools/Libraries/Frameworks: Git, Pandas, Nodejs, React, Material-UI, Stripe, Express, 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. The software 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   Aug 2020 – 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. The system 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. The code is written in HTML, PHP, and SQL, using MySQL databases and created with a team of 4 while practicing an Agile framework.

LEADERSHIP ROLES:

- Video Streaming Coordinator for the Washington College Esports Club   Aug 2019 – Dec 2020
- Presentation Director for the Enactus Washington College Chapter   Feb 2019 – Dec 2019