

Niklas Baumgardner

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EDUCATION

Michigan State University – East Lansing, MI

Expected December 2020

Bachelor of Science in Computer Science Engineering; 3.5/4.0

- Minor in Mathematics (enrolled in MSU Honors Mathematics program)

SKILLS

Languages: Python, C++, C#, JavaScript, PHP, HTML/CSS, MySQL, SQLite

Other: Git, Bash, PowerShell, Splunk, OOP, MVC, Database architecture, Testing

WORK EXPERIENCE

Humana, PBM IT Intern

January 2020-Present

- Created a web application using C# ASP .NET Core that hosts API calls to allow for better collaboration between teams
- Utilized the software development lifecycle to develop the application and led user testing and demo sessions with team members and project managers
- Practiced agile software development such as pair programming with team members, stand-ups, and sprints
- Networked with peers and leadership to gain insight on corporate business functions and software engineering

Michigan State University, Undergraduate Learning Assistant (ULA)

January 2020-Present

- Assisted Dr. Owen for Object-oriented Software Development (CSE 335) to make the class a better experience for students
- Engaged one on one with over 100 students to help further their understanding of class material via in-person and online settings
- Constructively provided feedback to students and answered their questions to aid in their learning

Michigan State University, Resident Assistant (RA) – East Lansing, MI

January 2019-May 2020

- Maintained secure and inclusive living environments in the residence hall where students could effectively learn and reside in, by routinely working 12-hour on-call duty shifts with co-RAs
- Mediated conflict between students residing in the residence halls through the use of coaching, facilitated dialogue, and active listening to grow and develop residents' conflict resolution skills
- Acted as an agent of Michigan State University by enforcing and upholding campus policies in order to ensure peers and residents conducted themselves in a similar manner
- Planned and executed social and academic events to cultivate a stronger community and an enhanced college experience for residents living on Michigan State's campus

PROJECTS

- Steganographer (Python) – A Steganography tool used to hide messages in the RGB values of an image. Modifies the LSB of each RGB value to encode a message within a given image
- TryItOut (C# ASP .NET Core) – Web application that Humana developers upload APIs into, and other developers are able to view those API requests and responses
- Face Recognition (MATLAB) – Face recognition algorithm that uses PCA to train the eigenfaces and then computes the distance scores for various faces using the eigenfaces
- Canadian Experience (C++) – Creates a short movie using keyframes and interpolation. Characters are moved independently while trees grow in the background from a given starting frame