

Ryan Zurrin

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Education

University of Massachusetts Boston, Boston, MA May 2023

Bachelor of Science: Computer Science, GPA: 3.8

Berkshire Community College, Pittsfield, MA Aug 2020

Associates of Science: Computer Information Systems / Computer Science GPA: 3.7

- *Certificate in Computer Programming – Technical* May 2020

Relevant Coursework

- Programming in Java I & II
- Programming in C
- Programming in C++ I & II
- Introduction to Algorithms
- Blockchain Technology
- Advanced DS and Algorithms
- Intermediate Computing with Algorithms
- Digital Circuits
- Data Structures with Java
- Ethics in Technology
- Calculus, Discrete Math, Linear Algebra
- Web Design
- IT Essentials

Technical Skills

- **Platforms:** Windows 3.1 - 11, Linux, UNIX, Raspberry Pi, Arduino
- **Languages:** Java (SE8 – SE11), C99 – C11, C++98 – C++20, Python 3+, HTML5, CSS3, MATLAB (R2021a)
- **Skills:** Object-Oriented Programming, Algorithm Analysis, Web Design, WordPress, Googling, ...
- **Development Tools:** Notepad, Visual Studio/Code, PyCharm, Sublime Text, IntelliJ, Terminal, Vim, MultiSIM, NetBeans, Eclipse, Git, Anaconda, Accessing compute power on remote clusters, ...
- **Software:** Microsoft Office360 Suite, Google (Sheets, Slides, Docs, Drive, Teachable Machines), Data Robot, GIMP, Autodesk Fusion360, ...

Project Experience

Berkshire Community College, Pittsfield MA

Design and build a website Sep. 2018 -2021

- Created GitHub account to manage all websites and coding projects.
- Integrated a third-party application for managing comments on my webpage.

Group Project to design different card games Apr. 2021

- Developed a playable card game program using C++, incorporating use of Abstract Data Type's, and Data Structure's.
- Coordinated several games into one menu-based game, allowing a user to select the game to play.
- Worked together using a GitHub repository and maintained close communication with team throughout the project.

Command line vector and triangle calculator Mar. 2020

- Devised 2D, 3D vectors, and triangle classes to allow for vector operations as well as the ability to solve triangles.
- Implemented a client program that allowed users to work with vectors and generate triangle data.

Work Experience

University of Massachusetts, Machine Psychology Department Researcher Feb. 2022 – Present

Machine Psychology Fellow, Data Science researcher

- Doing research using modern machine learning, training models which will eventually become the world's largest opensource mammography database available to professionals for use across the world.
- Personally responsible for building the data exploration API which allows us to access the remote dataset in a way that is easy. It's a Simple and flexible interface for connecting to remote Dicom data to help gain insights into what we have.
- Working closely with a team of fellow researchers, all helping me to learn a lot about best practices in research and how it applies to machine learning and computer vision within the medical imaging industry.

Freelance Web Design Jan. 2020 – Present

Website Administrator

- Designed, built, and maintain a website for local business [Berkshire Builders 623](#).
- Produced a website to allow group members to register and purchase tickets for events and concerts. Integrated Eventbrite into site for ticket management and used WordPress as the CMS.
- Constructed tracking and scoring system used in the first annual Great Berkshire Scavenger Hunt.

Norman Rockwell Museum, Stockbridge, MA

Jun. 2021 – Aug. 2021

Technology Intern

- Coordinated over 40 computers and mobile devices for digital experiences, including inventory and repairs.
- Wired the museum, beta-testing virtual exhibitions and setting up bug tracking software.
- Set-up and break-down A/V, 6 laptops, wireless microphones, and lightening equipment used for hybrid public/online programs each week.

Berkshire Community College, Pittsfield, MA

Jan. 2018 – Apr. 2020

IT Assistant | Computer Lab Assistant | STEM mentor | Tutor

- Set-up campus computers for over 1000 staff and students, kept systems updated, and safe.
- Helped students navigate the school's technology and offered advice and tips.
- Mentored new STEM students and tutored for Digital Circuits and IT Essentials class.

Awards and Memberships

- Dean's List – High Honors Awards Spring 2019, Fall 2019, Spring 2021
- CIS Program Award Spring 2021
- Joseph H. Smith Jr. '45 Award Spring 2021
- Robotics Club Sep. 2018 – Apr. 2020
- Phi Theta Kappa, Communications Officer Spring and Fall, 2019
- UMB Computer Science Club Fall 2021, Spring 2022