

# Adam Maciaszek

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I am a computer engineering graduate with experience in machine learning for artistic productions trying to shift to applications with a larger impact. I am a flexible worker who can adapt to whatever team I am on both in person and remotely. I enjoy working with interesting data where I can utilize my creative problem-solving and troubleshooting skills.

## TECHNICAL SKILLS

- Coding - Python, R, Matlab, Java, Bash/Shell Scripting, LaTeX, C, MIPS, Adobe Suite
- Software & Development Tools – GitHub, Quartus, Atmel 7, VirtualBox, Excel & Microsoft Suite, Adobe Suite

## EDUCATION

Sept 2022 **University of Massachusetts Amherst** : *Graduate Certificate in Data Analytics*

Current

- **GPA:** 3.85
- **Relevant Coursework:** Machine Learning for Data Analytics, Text as Data, Network Analytics, Research Design

May 2021 **University of Massachusetts Amherst** : *B.S. Computer Engineering*

- **GPA:** 3.4
- **Relevant Coursework:** Machine Learning, Computer Architecture, Trustworthy Computing, Signal Processing Methods, FPGA Based Security Engineering, Intro to Embedded Systems, Continuous-Time Signals and Systems, Engineering Probability and Statistics, Systems Software & Networking

## PROJECTS

**Senior Capstone Project : Shiver-Ring** –Developed remotely as a team from the ground up a wrist-mounted flexible PCB device that alerts the wearer audibly when a hypoglycemic event occurs by detecting if the wearer is shivering and send a text message to a family member or 911. My role was implementing the sampling of positional data and through FFTs and autocorrelation find the frequency of movement to see if it falls within 8-12Hz, the shivering range.

### Self Titled Youtube Channel - Adam Mac

A portfolio of videos which I use convolutional neural networks to deinterlace, upscale, de-grain, and remove scratches. My passion is vintage animation both hand drawn and stop motion, as well as preserving the history of the birth of film in the Victorian Era. Here I also explore VR content and converting stereoscopic 3d video from the turn of the century to modern VR.

## PROFESSIONAL EXPERIENCE

Jan 2022 - **AI Restoration Artist on *Crows are White***

Apr 2022 *Freelance Work for director Ahsen Nadeem*

- Restoring animation on archival footage through a deep convolutional neural network (CNN)/ trained models to recognize specific film degradation /upscale and remove grain and scratches / manually edited for errors including scenes filmed in the documentary on webcam and on camera

Jun 2021 - **AI Animation Restoration Artist on *Beautiful Nightmares***

Dec 2021 *Freelance Work for director Matt Hartley*

- Sole restorationist for fully animated feature using public domain animation using the CNN/ Coordinated with animation team for overlaying modern flash animation.

### **Data Archiver**

Feb 2018 - *Polish Center of Discovery and Learning, Chicopee, MA*

- Sep 2013
- Transferred data from paper documents and vinyl recordings to digital formats / created online database / Converted 78rpm records dating from 1900 to 1950 into 1100 songs / Custom designed exhibits including interactive display modifying an antique radio for museum guests to request songs

### **Research Assistant Siena College, Loudonville, NY**

Sep 2016 - *Siena College, Loudonville, NY*

- May 2016
- Computer Science virology research internship. Programmed in C simulations of viral capsid structures using the Monte Carlo method. Randomly synthesized viral capsids from both hexamer and pentamer proteins and then ruled out the impossibilities. Responsible for the testing of both the geometric viability of the created capsids and the thermodynamic stability of the structure.