

Robert M. Gemma, Jr.

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EDUCATION

University of Rhode Island, Kingston, RI
B.S. in Computer Science, Minor in Music

May 2021
3.34 GPA

RELEVANT COURSEWORK

Design and Analysis of Algorithms
Machine Learning

Operating Systems & Networks
Computer Organization

Computer Graphics
Object-Orientated Programming

CERTIFICATIONS & TECHNICAL SKILLS

C, C++, Python, C#, Java, JavaScript, Node.js, React.js, MongoDB, Git, GitHub, Max
VS Code, Eclipse, Unity, Windows 10, Linux, MacOS, MS Word, MS Excel, MS PowerPoint, G Suite, Zoom, WebEx, OBS, NDI

PROFESSIONAL EXPERIENCE

DisruptWorks, Barrington, RI
Sales Engineer Intern

January 2021 – Present

Seek five public cloud certifications (AWS, AWS AI, Azure, Azure AI, GCP) through guided self-teaching and online learning
Ideate and participate in hackathons with fellow interns – including AI/ML, public cloud, blockchain, and similar projects
Generate several leads with prospective clients through phone, email, and online platforms (e.g., UpWork) on a weekly basis

Computational Sciences REU, Louisiana State University

May 2018 – July 2018

Space Maps for the Solo Performer

Collaborated with Dr. Stephen Beck throughout the SDLC to produce software that controlled SpaceMaps with an analog joystick
Taught myself Max, a Java based visual programming language focused on object-orientated design
Designed and built two, two-dimensional SpaceMap GUIs used to route digital audio signals through a loudspeaker matrix

PORTFOLIO PROJECTS

COVID-19 World Data, Python

December 2020

Implemented a neural network and other machine learning algorithms using sklearn, torch, and other Python frameworks
Met with group members virtually to define goals, divvy work, and produce a final PowerPoint presentation

Cellular Automata, C++

May 2020

Multithreaded an application in two different ways, synchronizing access to shared resource with mutex locks
Assembled and used a makefile to compile and link code for production use

A Universal Virtual Machine, C

November 2019

Emulated a 32-bit machine with eight registers and fourteen opcodes on 64-bit hardware
Debugged difficult code through unit testing, identifying specific failure points and following a well-maintained design document

LEADERSHIP EXPERIENCE

Kappa Kappa Psi, University of Rhode Island
Chapter President

September 2017 – Present
September 2019 – Present

Prepare and lead weekly meetings, workshops, and other events for the organization (~25 members)
Transition all chapter operations to a virtual format in a matter of weeks in response to COVID-19 protocols
Set, pursue, and review goals with a five-member executive board on an annual basis and inspire members to achieve them
Delegate work between eight officers and three committees, ensuring tasks are completed in a timely manner
Develop and direct the organization's culture in a hyperconscious manner through attentive listening and constructive criticism
Performed a variety of background tasks needed to maintain standard operations and "put out fires" daily

Service Chair

September 2018 – May 2019

Created dozens of templates that automatically tracked service hours and provided similar functionality in G Suite
Recognized, developed, and executed 15-20 service events per semester aiding the URI Music Department
Managed the schedules of the organization and its members to ensure high attendance at service events

Marching Band, University of Rhode Island

September 2017 – November 2020

Drum Major

September 2019 – November 2020

Taught music, drill, and choreography to the band (~100 members) throughout ensemble rehearsals
Communicated our director's vision, daily goals, and other logistics to eleven section leaders and the rest of the band
Maintained an elevated level of musicianship and aided others in their musical growth