JULIA SCOTT IMMER

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EDUCATION

UNIVERSITY OF COLORADO BOULDER
Applied Computer Science, Post-Bacc Bachelor of Science, May 2021 - May 2022
- 3.86 GPA

UNIVERSITY OF CENTRAL MISSOURI
Mathematics, Bachelor of Science, Minor Physics
- 3.72 GPA , Cum Laude, Dean's List

EXPERIENCE & PROJECTS

SOFTWARE ENGINEER INTERN
FADE Program / Company32-CACI / May 2022 - August 2022
- Application Key Infrastructure: Designed & created Heimdall authorization microservice + client library, issuing & validating tokens signed via encryption. Throttling via cached rules & accesses.
- Proof of concept: gitlab pipelines, quarkus, heimdall itself
- Generated/maintained design documents, pivoting code with design, following the agile framework
- Bandwidth test project for Edge: download estimate for remote clients

RING BUFFER FOR AUDIO PROCESSING
December 2021
- Designed & implemented a circular array buffer, the fundamental audio data structure to store and process samples. Created looping effect. C++

RSA AUDIO ENCRYPTION SCHEME
July 2021
- Built RSA software exploring its mathematics, encrypting text and audio files in python. Implemented fast modular exponentiation, Bezout's coefficient, RSA algorithm, and rudimentary code-breaking

RESEARCH
Epistemological Beliefs, Confidence, and Academic Performance
- Conducted grant funded research investigating the relationship between math confidence, beliefs about math and academic performance. Grant awarded through the honor's college.

ENTREPRENEURSHIP

INTIMACY AND RELATIONSHIPS EDUCATOR
Boulder, Colorado / September 2012 - May 2021
- Created and sold two successful educational organizations, featuring international experts, and vibrant online communities. Coached hundreds of clients. Designed, marketed, hosted empowerment workshops.

EMERALD MORNING
Boulder, Colorado / 2009 - 2013
- Developed original line of luxury natural body care products. Formulated, produced, packaged, marketed, and sold the product line - engineering every part of the business.

SKILLS

C++, Java, Python, Bash, SQL, HTML, CSS, Kubernetes, Gitlab CI/CD, Maven, Helm, Docker, Research, Algorithms, Data Structures, Statistics, Product Development, Technical and Creative Writing, Public Speaking, Organization, Marketing, Sales, Leadership, Communication, Negotiation, Voiceover