

# 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

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## SKILLS

C++, Java, Python, Kubernetes, Gitlab CI/CD, Maven, Research, Algorithms, Data Structures, Statistics, Product Development, Technical and Creative Writing, Public Speaking, Organization, Group Facilitation, Branding, Marketing, Copywriting, Sales, Leadership, Communication, Negotiation, Voiceover

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## 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, stored in Redis
- Proof of concept: gitlab pipelines, Quarkus, Heimdall itself. Generated/maintained design documents, pivoting code with design, following the agile framework. Java, Maven, Kubernetes, Docker, Helm, Gitlab CI/CD
- Bandwidth test project for Edge: proof of concept generating a download estimate for remote clients. Java

### 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 sound effect. C++

### RSA AUDIO ENCRYPTION SCHEME

*July 2021*

- Built RSA software exploring the algorithms behind it, encrypting text and audio files in python. Implemented Fast Modular Exponentiation, Bezout's coefficient, RSA algorithm, and rudimentary code-breaking. Python, Jupyter

## 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.

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## ENTREPRENEURSHIP

### INTIMACY AND RELATIONSHIPS EDUCATOR

*Boulder, Colorado / September 2012 - May 2021*

- Created and sold two in-person 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.