

JULIA SCOTT IMMER

303.378.6309 • jusc1196@colorado.edu • Git: [Julia-Immer](#) • Boulder, Colorado

EDUCATION

UNIVERSITY OF COLORADO BOULDER

Applied Computer Science, Post-Bacc Bachelor of Science, 2021 to 2022 - 3.86 GPA

UNIVERSITY OF CENTRAL MISSOURI

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

INTRODUCTION

Passionate, detail oriented, software engineer who thrives solving difficult problems. Easily adaptable to new languages and tech, with an insatiable curiosity, and experience in algorithms, proof-of-concept, microservices, testing & DevOps.

SKILLS

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

EXPERIENCE & PROJECTS

SOFTWARE ENGINEER INTERN

FADE Program / Company32-CACI / May 2022 - August 2022

- Application Key Infrastructure: Designed & developed Heimdall authorization microservice + client library, issuing & validating tokens signed via encryption. Throttling via cached rules & accesses, in Redis
- Proof of concept: Gitlab pipelines, Quarkus, Heimdall itself. Generated/maintained design documents, pivoting code with design, following agile framework. Java, Maven, Kubernetes, Docker, Helm, Gitlab CI/CD, REST APIs
- 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.
-

ENTREPRENEURSHIP

INTIMACY AND RELATIONSHIPS EDUCATOR

Boulder, Colorado / September 2012 - May 2021

- Founded two in-person educational organizations, with international experts & vibrant online communities, eventually selling one org. Coached hundreds of clients. Designed, marketed, led empowerment workshops.

EMERALD MORNING

Boulder, Colorado / 2009 - 2013

- Developed original line of luxury body care products. Formulated, produced, marketed, & sold locally & online