JULIA SCOTT IMMER

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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 tackling difficult problems. Easily adaptable to new languages and tech, with an insatiable curiosity and experience in microservices, authorization, encryption, and CI/CD.

SKILLS

Python, Java, C++, HTML, CSS, Unit and Integration Testing, Kubernetes, Gitlab CI/CD, Maven, Helm, AWS, Linux, Docker, Debugging, Algorithms, Data Structures, Git, Agile, Research, Product Management, Technical and Creative Writing, Public Speaking, Group Facilitation, Branding, Marketing, Sales, Leadership, Communication, Negotiation

EXPERIENCE & PROJECTS

SOFTWARE ENGINEER INTERN
Six3 Advanced Systems / CACI International / 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, CI/CD, REST APIs, Jira.
- Bandwidth test project for Edge: proof of concept generating a download estimate for remote clients. Java.

RSA AUDIO ENCRYPTION SCHEME
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.

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

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

RELATIONSHIPS AND INTIMACY 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