

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 audio programming, microservices, CI/CD, and proof-of-concept.

SKILLS

Python, Java, C++, Algorithms, Audio Programming, Speech Synthesis, Kubernetes, Gitlab CI/CD, Maven, Helm, AWS, Unit Testing, Debugging, Data Structures, Github, Agile, Research, Product Management, Technical and Creative Writing, Public Speaking, Group Facilitation, Marketing, Sales, Leadership, Communication, Negotiation, Voiceover

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.

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++.

FULLY SYNTHESIZED PODCAST - JEPBURN - 2020 - 2021

- Created a fully automated news podcast using speech synthesis, scraping script from AP. Python, flowtron.

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.

RESEARCH

Epistemological Beliefs, Confidence, and Academic Performance

- Conducted grant funded research investigating the relationship between math confidence, beliefs about math
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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