

Contact me at:

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Josh Hess

Software Engineer/Dev Ops

Work Experience

SOFTWARE ENGINEER

Casino Game Maker

Dec 2017 - Apr 2021

Spent a year on a game/analytics server from the ground up that coordinated secure communication, was protocol agnostic, did data tracking and analysis on gameplay information, provided comprehensive and full proof metering for long term analysis, and finally had a focus on fault tolerance and security due to rigorous regulations.

One major responsibility of mine was doing R&D for new features or technologies, the biggest such project was a custom end to end streaming solution requiring flexibility in deployment. This involved experimenting with many different protocols and libraries among various languages including: RTMFP, DirectShow, Media Foundation, FFMPG, OpenCV, WebRTC, and more.

Was involved in a research and planning project that involved coordinating with legal teams, clientele, management, as well as engineers from disparate teams. One major aspect of the project was to get a patent in Singapore, the US, and a few other countries.

PROFESSIONAL PROFILE

I am a software engineer with a passion for development pipelines and refining toolsets and processes to perfection. I generally enjoy learning new languages and technologies that expand my toolset.

MATH TA & TUTOR

Southern Utah University

Aug 2016 - Dec 2017

Proctored and graded for College Algebra and Linear Algebra classes. In addition to tutoring for all levels of Math classes.

Skills Summary

Languages

C#, TS, C++, Python, PostgreSQL

Libraries & Protocols

WebRTC, dotNET, RTMFP, OpenGL, RSA & AES

Frameworks

Vue, Electron, WPF/Forms, Unity, Quasar

Dev Ops & Workflows

Ubuntu Server, Gitlabs CI/CD, Docker, Proxmox (Hypervisor)

Other

Technical Writing

Educational History

SOUTHERN UTAH UNIVERSITY

Bachelor of Science

Aug 2015 - Apr 2020

3.8 GPA

Double major in Pure Mathematics and Computer Science and minored in Philosophy.

Awards Received

- Magna Cum Laude, SUU Honors (2020)
- Southern Utah Code Jam, 3rd Place (2017/2018)
- Sterling Scholar, Mathematics (2015)
- CSWA, SolidWorks Certification (2014)