ibapps39

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EDUCATION

Colorado State University

Aurora, CO Aug. 2019 - Feb. 2021 Bachelor of Science in Computer Science

Colorado State University

Bachelor of Economics, Minor in Political Science

Fort Collins, CO Aug. 2015 - Dec. 2018

Experience

Substitute Teacher, TAGG

Dec. 2024 – Present

Primarily Denver Area

Various, CO

- · Worked with various age groups K-12th Grade, both special needs and gifted
- Troubleshooted and implemented solutions for Windows, Mac systems, devices, and various peripherals.
- · Taught wide array of subjects, including but not limited to home-room, English, Computer Science, Art, Social Studies, Spanish, and more.
- Communicated and coordinated with, and reported to, administrators, staff, and teachers to meet dynamic, need based goals.

IT Consultant, LogaDosia LLC.

May 2024 - June 2024

Hybrid, Remote

Parker, CO

- · Acting/Interim CTO, working with product managers to define solutions for business needs in software and application development.
- Designed and implemented web and mobile app infrastructures, establishing clear project roadmaps.
- Led technical strategy for hybrid environment, focusing on on-premises and cloud-based solutions.
- Utilized Draw.io to visualize systems architecture and collaborate with stakeholders.

Software Developer I, Mphasis

Dec. 2021 – May. 2022

Centennial, CO

- Developed software solutions using Java, C/C++, and MySQL in a collaborative IT team.
- Worked with hybrid cloud infrastructure and contributed to Agile software development.
- Employed best practices in testing, code reviews, and documentation.
- Collaborated with cross-functional teams to resolve technical issues and ensure high-quality software.

Projects

Remote

GeometryDropCpp | Cpp/C++, Makefile, raylib

Mar. 2025 - Present

- Unit Tested, Optimized, game utilizing the popular game making library raylib.
- Fine-grain collisions, mechanics, and resource light.
- Dynamic, deployable, and playable on multiple platforms.

March 2024 – Present PoliCycle | C/C++

- Implement complex, real-time mechanics modeling a small, realistic economy including ESG factors
- Challenge of refactoring AI generated code into functional, clean, unit tested, and compliant software.
- Documented project and shared it on GitHub for open-source community.

iosGPUCalculate | Swift, SwiftUI, Metal

Oct 2024 - Present

- Designed and implemented a Metal-based compute shader for high-performance GPU calculations.
- Created real-time visualization tools for CPU/GPU performance metrics and scalability testing.
- Optimized vector calculations for large datasets, handling up to 1 million elements.

FoldAR | Swift, Storyboard, visionOS

Aug 2023 – Dec 2023

- Developed an AR app with real-time point tracking using iOS computer vision and Vision framework.
- Utilized Python and Jupyter notebooks for model training and data point tracking analysis.
- Collaborated on user-friendly AR interfaces for iOS devices.
- Met graduate school computer science course standards.

TECHNICAL SKILLS

Languages: C, C++, C, Swift, Java

Frameworks and Libraries: raylib, SDL2 Metal, Arduino

Tools: Git, GitHub, GitLab, VS Code, Xcode, Eclipse, Visual Studio

Cloud: Google Colab, GitHub Databases: MySQL, SQLite

Technologies: iDevices(iPhone, iPad, etc), Mac, PC, Linux