Logan Forman

loganforman.com
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github.com/dev-dwarf/

EXPERIENCE

Stirling Automation– *Systems Programmer*

September 2022 - PRESENT

Created software to visualize data graphically and through audio for Windows 10 using C++, Win32, and OpenGL.

Handmade Math– *Open Source Contributor*

December 2022 - PRESENT

Implemented common operations for 2x2 and 3x3 matrices in C. Added Matrix Inversions for 4x4 matrices, including fast inverses useful for 3d graphics.

Amazon– *SDE Intern*

May 2022 - August 2022

Designed and implemented cloud-native tools for managing and auditing Prime offer personalization programs using AWS and React. Received return offer.

Amazon– *SDE Intern*

June 2021 - August 2021

Designed and implemented Java microservices to drive Prime customer acquisition through incentives targeting. Received return internship offer.

PROJECTS

Static Site Generator *lcdf.dev/git-ssg.html*

Site generator for my personal website. Dec 2022.

Fast, extendable site generator in <1000 lines of C++.

C++ Game Engine *<no link yet>*

C++ Engine for 2D and 3D games.Oct 2022.

From-scratch game engine in C++ (WIP). Windowing, Input, Rendering, Audio, Multithreading, and More!

FEWAR-DVD *steam.pm/app/1769510*

Game for PC on Steam. Dec 2022.

Speedrunning arcade game with maze-like procedurally generated levels.. Positive reviews on steam.

SELF *dev-dwarf.itch.io/self*

Game for PC and Web. February 2021.

2D Platforming game with precise controls. 100,000+ players, licensed by Cool Math Games and Armor Games.

LANGUAGES

C, C++, Java, JavaScript, HLSL/GLSL, Lisp

English

TOOLS

Visual Studio, Git, RenderDoc

TECHNOLOGIES

DirectX11, Win32, OpenGL (>4.0), CUDA, Amazon Web Services, React

MATHEMATICS

Trigonometry, Calculus,
Partial Differential Equations (PDEs),
Numerical Methods,
Linear Algebra, Geometric Algebra

EDUCATION

New Mexico Tech– *B.S. in Applied Mathematics*

Fall 2020 - Spring 2023

Currently pursuing a Bachelor's of Science in Applied Mathematics. Topics include numerical methods, partial differential equations, mathematical modeling. Honors. GPA 3.89.

Santa Fe Community College– A.S. in Computer Science

Spring 2018 - Spring 2020

Entered dual credit program as replacement for high school. Graduated with High Honors (GPA 3.99) and Dean's List award each year.