

Logan Forman

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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.

Implemented matrix inverses for 3d graphics. Created robust Slerp implementation for quaternions. Made a portable tool in C to update the user's code to HMM 2.0.

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 lcfdev.engine.html

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, Emacs

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.