# "Build smarter to go faster."



## Game Dev Enthusiast + Amateur Cook + Lifelong Learner

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#### Skills

# Backend/Systems

- Unity's Jobs + DOTS
- Multithreaded conversion
- C#, NodeJs, Sql
- Data-driven design
- Cloud infrastructure

### **Tooling**

- Unity editor extensions
- ShaderGraph, VFX Graph
- Designing custom editor authoring workflows
- Git and Perforce
- 3D modeling in Blender

## Specific applications

- Procedural mesh generation
- Behavior tree NPC AI
- Scriptableobject config
- Real time simulations
- GPU acceleration

#### **EDUCATION**

## **BS Software Engineering**

Milwaukee School of Engineering | 2017

#### EXPERIENCE

Seeb Defender fraculation.com/blog/seeb-defender-project/

12/26/2020 - Current

- Built a farming simulation, tower defense, roguelite around a dynamic plant simulation
- Managed a large project and designed bespoke algorithms to reach 60FPS
- Used scriptable objects to accelerate game design and configuration
- Skills: Unity3D, C#, DOTS, 3D modeling, Performance Optimization

L-System language extension <u>fraculation.com/blog/lindenmayer-implementation</u>

12/26/2020 - Current

- Procedural mesh generation language highly optimized with multithreaded Jobs
- Extended the Unity editor import pipelin to compile custom language files into mesh generators
- Skills: Unity3D, C#, Unity Jobs, Unity library management, Unit and Performance testing

Spideyboi fraculation.com/Spideyboi/

07/31/2020 - 08/03/2020

A 2D puzzle game built in a weekend, in which the player programs a spider to build a web

AWS developer @ Milwaukee tool

01/11/2021 - 06/18/2021

- Migration to elasticsearch from Sql server using Kinesis Consumer Library and AWS Lambda in a CQRS pattern
- Skills: C#, Python, Typescript, Kinesis, AWS Lambda, Git, Terraform, dynamodb

**Full stack Angular Application developer** @ Symplr Cactus, API Healthcare 08/28/2017 – 01/11/2021

- Developed full-stack Angular web applications, in a small team and as part of up to 6 teams
- Owned and Documented new applications, onboarded multiple teams to our tech stack
- Skills: C#, WebAPI Typescript, Python, Kinesis, SQL, Agile, Angular, Git, Jenkins, Mentorship