MATTHEW Kosarek

- Software Developer
- matthewkosarek.xyz
- github.com/mattkae
- mkosare1@gmail.com
- United States Citizen

Languages	
JavaScript	5 yrs
TypeScript	5 yrs
C#	2½ yrs
Python	2½ yrs
C/C++	1 yrs
Java	1 yr

Libraries/Frameworks		
React	5 yrs	
node.js	2½ yrs	
Unity	2½ yrs	
ASP.NET	2½ yrs	
OpenGL	1 yr	

Tools		
git	5 yrs	
Linux	5 yrs	
VSCode	2½ yrs	
Visual Studio	2½ yr	
Webpack	2½ yrs	

EXPERIENCE

Software Team Lead

July 2020 to Present









Vention Montreal, QC

- Main Tech: JavaScript, TypeScript, Python, Linux, Node.js
- Led a team in the development of client-facing industrial software applications including cobot palletizers, cartesian palletizers, and CNC machines
- Developed and deployed several client projects valued over \$100k+ USD each
- Architected and developed the core framework for all future client projects
- Interfaced with other teams on a daily basis including sales, customer success, application engineers, other software departments, and more
- Planned and organized long-term projects and daily tasks via Asana and Github Projects
- Programmed thousands of lines across the codebase, from firmware running on a BeagleBone AI to the application layer running on the web

Software Engineer I

January 2018 to June 2020

Big Huge Games Timonium, MD

- Main Tech: C#, Unity, TypeScript, React
- Developed and maintained the data pipeline from data entry, to data validation, to data publishing - for Arcane Showdown
- Designed, built, and maintained a live operations scheduling and publishing web application for DomiNations
- Implemented a localization system for Arcane Showdown which allowed the game to be released in different languages
- Implemented game features on all parts of the stack, including tools, Unity client, and game servers

Teaching Assistant for Intro to Video Game Design September 2017 to December 2017

Johns Hopkins University Baltimore, MD

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- Main Tech: C++, SDL2
- Assisted beginner programmers in the development of 2D game engines using SDL2

Software Engineering Intern

May 2017 to August 2017

Big Huge Games Timonium, MD



- Main Tech: C#, GTK, Unity
- Developed a tool using C# and GTK to improve the workflow of the quality assurance team for DomiNations
- Wrote a comprehensive user manual that explains how the tool functions for both technical and non-technical users

Software Engineering Intern

May 2016 to August 2016

Sparkypants Studios Baltimore, MD



- Main Tech: C++
- Developed a profiling framework for the game systems of Dropzone

EDUCATION

BSc Computer Engineering at Johns Hopkins University September 2014 to December 2017

Baltimore, MD

- 3.53 GPA (Magna Cum Laude)
- Relevant Coursework: Computer Graphics, Object Oriented Software Engineering, Linear Algebra, Video Game Engines and Design, Operating Systems, Data Structures

PROJECTS

- My self-hosted personal website where I do small projects in WebAssembly and OpenGL: matthewkosarek.xyz
- A game engine that I built in C++ and OpenGL: github.com/mattkae/MatteEngine
- My self-installing emacs configuration: git.matthewkosarek.xyz/emacs_config/
- Unfinished website about realtime physics in video games: physicsforgames.com/