Daniel Prilik

Software Developer

CONTACT

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SKILLS

DEVELOPMENT

C++

Rust

SDI 2

node.js

HTML5 + CSS

JavaScript (ES6)

React & React Native

Typescript

TOOLS

Unreal Engine 4

Wwise

Unix

CMake

Perforce

Visual Studio

Sublime Text

EDUCATION

University of Waterloo BSE Software Engineering 2020

INTERESTS

Exploring Music Big fan of Psych Rock, Synthwave, and Funk (to name a few)

Classic Movies / TV Sucker for everything 80s, especially anything campy

I keep up with the scene, and like to write my own emulators too

Webassembly and Emscripten Pushing the boundaries of what a web-browser can do

Video Gaming Rocket League, Civilization, Fallout, and many more

Memes

EMPLOYMENT

Microsoft - The Coalition

Audio Engineer - C++, Unreal Engine 4, Wwise

Vancouver, BC Fall 2017

Orchestrated an audio data migration that reduced asset duplication by 11x, and boosted artist productivity by eliminating contention on key assets

Designed and Implemented custom UI components that expose Wwise functionality in UE4, greatly improving workflow for audio artists

Kitchener, ON LCBO|next Winter 2017

Full Stack Web Developer - React, React Native, node.js, Mapbox, Sass

- · Lead Development and Design of a React SPA to locate products on virtual maps of LCBO locations
- Architected RESTful APIs, and aided in the development of associated node.js backends
- Implemented sales-data visualizations in React and React-Native using SVG and Victory Charts

Polar me

Front End Web Developer - HTML5, Sass, JS, node.js

Toronto, ON Summer 2016

- · Designed and Implemented Native Advertisements for clients such as Engadget, Wired, and AOL
- Engineered and Deployed a build system to streamline and automate Native Ad development, resulting in significant boosts to developer throughput
- Developed a Slack Bot to interface with a nascent project-management platform with a limited API

PROJECTS

ANESE - prilik.com/ANESE

- A Nintendo Entertainment System (NES) Emulator focused on accuracy and clean, readable, C++11 code
- Researched and fully reimplemented the MOS 6502 processor used in the NES, including hardware quirks
- Currently researching and implementing the Picture Processing Unit (PPU), with SDL2 as a graphics backend

1212! - 1212.rocks

- Designed and Developed a novel puzzle game for desktop and mobile
- · Leveraged JavaScript, HTML5, and CSS to craft a responsive, intuitive, and user friendly web-game
- Gained a strong understanding of responsive design principles
- Acquired a playerbase of over 15000 people each month

nfinite.space - devpost.com/software/nfinite-space

- · Imagined a cloud file-storage service that could store files without the need for a data-center
- · Implemented a protocol to leverage space from connected users to store parts of other users' files
- Developed a proof-of-concept at Hack the North 2016 with a Golang backend, and a React frontend
- Winner of the AWS Sponsor Prize

mips241 - prilik.com/mips241

- Architected and Implemented an emulator for the MIPS system used in CS 241 at Waterloo
- Features a interactive debugger with step-by-step execution, breakpoints, and instruction disassembly
- Explored compiling C++ to JS using emscripten to create a Web interface for the emulator

Personal Portfolio - prilik.com

- User-interactivity is achieved using purely CSS3 animations to minimize JS performance impact
- Employed principles of responsive design to scale experience across Mobile and Desktop
- Showcases many other personal projects developed over the years

AWARDS

Winner of the Amazon Web Services (AWS) Sponsor Prize

Hack the North 2016, QHacks 2017

For work on nfinite.space and fastify [github.com/Melinysh/fastify] respectively

Regional 2nd Place

Shalhevet Freyer International Physics SAFE Tournament

- · Gained a understanding of Arduino programming principles and physical hardware development
- Organized a team to construct a challenging puzzle safe from the ground up
- Designed, Programmed, and Implemented the electronics that controlled various puzzles

2017 and 2016

2015