Daniel Prilik

Software Developer

CONTACT

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prilik.com

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SKILLS

LANGUAGES & FRAMEWORKS

С

Rust

SDL2

node.js

HTML5 + CSS

JavaScript (ES6)

Typescript

React & React Native

Objective-C

TOOLS

Unix

CMake

Git

Sublime Text

Travis & Appveyor CI

Visual Studio

Perforce

Unreal Engine 4

Wwise

EDUCATION

University of Waterloo **BSE Software Engineering 2020**

INTERESTS

Exploring Music

Fan of Modern Rock, Psych Rock, Synthwave, and Funk (to name a few)

TV & Movies

Mostly sci-fi, both classic and modern

Emulation

I keep up with the scene, and writing my own!

PC Gaming & VR

PUBG, Rocket League, and Fallout are awesome. I also have a Oculus Rift, which is amazing!

Memes

I'm a millennial ¯_(ツ)_/¯

EMPLOYMENT

Apple Inc.

Cupertino, CA Summer 2018

Platform Architecture Engineer - C, C++, Objective-C, Python

- Replaced hundreds of large, autogenerated modules with a single small configurable module
- Collected statistics, Modeled best/worst-case scenarios, and Proposed possible implementations
- Deleted >100,000 LOC from project, reducing compile-time by 30%, and improving maintainability
- Analyzed final implementation, confirming that performance met / exceeded initial estimates
- Coordinated across teams to develop a long-term support plan for the feature

Microsoft - The Coalition

Vancouver, BC Winter 2017

Audio Engineer on Gears 5 - C++, Unreal Engine 4, Wwise

- · Orchestrated a large audio data migration, greatly improving project maintainability
- Identified and intelligently grouped similar assets, reducing asset duplication by a factor of 11x
- Exposed advanced Wwise functionality in the UE4 editor by implementing custom UI components, substantially improving audio artist workflow

LCBOlnext Kitchener, ON Summer 2017

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

- Spearheaded the Design and Development of a complex React SPA
- Architected several RESTful APIs, and assisted in the development of the node.js backend
- · Communicated sales-data in React and React-Native apps using popular dataviz libraries and custom SVG

Polar.me

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

Toronto, ON Summer 2016

- · Designed and Implemented effective Native Advertisements for clients such as Engadget, Wired, and AOL
- Engineered and Deployed a build system to streamline and automate Native Ad development, greatly improving developer efficiency

PROJECTS

ANESE + wideNES - prilik.com/ANESE

- Created a cross-platform Nintendo Entertainment System (NES) emulator in C++11 with SDL2
- Compiles on Windows, macOS, and Linux, with nightly builds available from Travis CI and Appveyor
- Designed wideNES, a novel technique to automatically map-out worlds and levels in NES games
- Compatible with many popular NES titles, such as Super Mario Bros., Legend of Zelda, Metroid, and more

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

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 7000 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

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