Peter Mocarski

□ (847) 596-1304 | ☑ pmm248@cornell.edu | 💣 www.pmocarski.com | 🛅 peter-mocarski

Education

Cornell University Ithaca, NY

MASTER OF ENGINEERING, COMPUTER SCIENCE 2017 - May 2018

Cornell University Ithaca, NY

Bachelor of Science, Computer Science 2014-2017

• GPA: 4.0

Experience _

 Optiver
 Chicago, IL

INCOMING SOFTWARE DEVELOPER, INTERN

- Part of the Automated Trading Systems team, responsible for developing low-latency, high frequency trading systems
- Will work extensively in C and C++, with a focus towards developing low-latency and high performance solutions

Intentional Software (acquired by Microsoft)

Bellevue, WA

Summer 2017

SOFTWARE DEVELOPER, INTERN

Summer 2016

- · Part of the Layout and UI Assets team
- Implemented and demoed an integrated date picker tool in C# with multi-dimensional animations, gesture recognition, and customizable visual themes
- · Heavy focus on layout optimization, with integration of lazy evaluation and tree-based caching

Department of Computer Science, Cornell University

Ithaca, NY

Spring 2017

TEACHING ASSISTANT (CS 4820: ALGORITHMS, CS4320: DATABASES, AND ECE2300: COMPUTER ORGANIZATION)

2015 - Present

- Lead lab sessions and office hours
- Administer exams and grade student submissions

Projects

PRAC-MAN 3D Side Development

Co-Creator (4 Person Team)

- Web-based 3D implementation of PAC-MAN themed as a fast-paced horror game

• Implemented in WebGL and JavaScript

Ray-Tracing Image Renderer

Cumulative Course Project

CO-CREATOR (2 PERSON TEAM)

- Spring 2017
- Simulates the way photons propagate through space, aiming to produce photorealistic computer-generated images
- · Renders shadows, optical effects, textures, multiple shading models, and surface materials such as glass and metal
- Implemented in Java

ConsTableaux (Featured at BOOM 2017)

Side Development

Co-Creator (3 Person Team)

Fall 2016

- · Automated theorem prover and interactive proof visualizer based off of the method of analytic tableaux for propositional logic
- Implemented in Scala and JavaScript (D3.js)

Pokémon Pebble Edition (Winner at BrickHack 2015)

RIT Brick Hackathon

Co-Creator (3 Person Team)

Spring 2015

- Mobile, location-based version of Pokémon integrated with the Pebble smart watch
- Implemented in Java and JavaScript

Skills ____

Languages & Technologies Practical Theoretical Hardware-Oriented Java, C#, C, OCaml, WebGL, SQL, Verilog HDL, ARM Assembly, JavaScript, LaTeX, Git Graphics, Artificial Intelligence, Natural Language Processing, Machine Learning, Databases Algorithms, Cryptography, Functional Programming, Applied Logic, Networks II Operating Systems, Embedded Systems, Digital Logic and Computer Organization