eter Mocarski

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

Education

Cornell University Ithaca, NY

MASTER OF ENGINEERING, COMPUTER SCIENCE

2017 - 2018

Cornell University Ithaca, NY

BACHELOR OF SCIENCE, COMPUTER SCIENCE, 4.0/4.0

2014-2017

• Summa Cum Laude

Work Experience _____

Optiver Chicago, IL Summer 2017

SOFTWARE DEVELOPER, INTERN · Part of the Futures Automated Trading team, responsible for developing low-latency, high frequency trading systems

- · Parallelized an end-to-end testing framework to increase performance while ensuring safe concurrent execution of processes
- · Worked in Python and C++

Intentional Software (acquired by Microsoft)

Bellevue, WA

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

Teaching Experience _____

Department of Computer Science, Cornell University

Ithaca, NY

GRADUATE TEACHING/RESEARCH SPECIALIST

2018-Present

- Member of course staff for CS4700 (Artificial Intelligence) and CS4701 (Practicum in Artificial Intelligence)
- Lead office hours, organize review sessions, and provide instruction support
- Administer exams and grade student submissions

College of Engineering, Cornell University

Ithaca, NY

TEACHING ASSISTANT

2015 - 2017

- Member of course staff for CS4820 (Algorithms), CS4320 (Database Systems), and ECE2300 (Computer Organization)
- · Led lab sessions and office hours
- Administered exams and graded student submissions

Projects _

PRAC-MAN 3D Cumulative Course Project

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

Spring 2017

Spring 2017

- · Implemented in WebGL and JavaScript

Ray-Tracing Image Renderer

CO-CREATOR (4 PERSON TEAM)

CO-CREATOR (2 PERSON TEAM)

Cumulative Course Project

· 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

Skills

Languages & Technologies **Practical Theoretical Hardware-Oriented**

Python, Java, C#, Ruby, OCaml, WebGL, 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