

Matthew Perlick

Computer Scientist

I am a third year Computer Science student at Drexel University searching for my second Co-op Internship. My goals for this internship are broad and simple. I want to contribute at a high level while learning and applying my prior knowledge. I'm a self-motivated employee that enjoys being a productive member of any team.

Education

- Drexel University, Philadelphia, PA
- Bachelor of Science in Computer Science, June 2022
- Academic Status: Pre-junior
- GPA: 3.53

Professional Experience

IT Coordinator

April 2019 >> December 2019

The Pilots Association for the Bay and River Delaware

- Created a software solution for the accounting department to automatically verify vessels by universal ID number using PHP, MySQL, and cron jobs
- Acted as a main point of contact between our department and Bowditch Navigation, a software development company, as they developed a new version of their navigation software for our pilots
- Developed several internal web services to manage company contacts and streamline internal and external communication
- Developed windows shell scripts to install updated chart information and change settings on pilot navigation computers

Personal Projects

LED designer (ongoing)

2019

<http://bit.ly/perlick-led>

- Developed animation algorithms to run on addressable LED strips
- Designed each animation to be robust and versatile while being limited by the low memory of an Arduino uno
- Learned WS2812b addressable LED standards and used a breadboard to connect the LEDs Datapath and power supply to an Arduino uno

WASM Sorting (ongoing)

2019

<http://bit.ly/perlick-wasm>

- Developing WASM (web assembly) application with JavaScript and Rust
- Comparing sorting algorithm speeds written in JavaScript and Rust
- Creating graphics to compare performance over different input sizes

Virtual Pet

2017

<http://bit.ly/perlick-vp>

- Developed a trainable virtual pet to gain a basic understanding of Machine Learning applications and implementation
- Designed graphics to represent the internal state of the algorithm

Graphic Design

2019

<http://bit.ly/perlick-gd>

- Designed and created flyers for Pi Kappa Phi recruitment
- Learned photo editing using GIMP (GNU Image Manipulation Program)

Personal Info

Address

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Phone

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E-mail

Matt.perlick@gmail.com

Website

<http://bit.ly/perlick>

LinkedIn

www.linkedin.com/in/mperlick

GitHub

github.com/Perlick

Technical Skills

Skilled at...

Languages: Java, Python, and PHP
Operating systems: Windows 10 and Ubuntu
Text Editors: IntelliJ and Vim

Experience with...

Languages: C, C++, SQL, Rust, NodeJS, Racket, Bash, Windows shell, HTML, CSS, JavaScript, MIPS Assembly, R, and MATLAB
Operating Systems: Raspbian, MacOS, and Tails
Text editors: Atom, Eclipse, and PyCharm

Relevant Coursework

Computer Science

Data Structures
Adv Programming Techniques
Math Foundations of Comp Sci
Machine Learning
Systems Architecture

Software Engineering

Web and Mobile App development
Software Architecture I
Software Architecture II

Math

Discrete Mathematics
Linear Algebra
Scientific Data Analysis
Calculus III

Other

Technical Communication
Business Communication