

## Personal Website

www.rickymangerie.com

## Education

Drexel University  
Bachelor of Science in Computer Science  
Tracks: Human-Computer Interaction, Software Engineering

Philadelphia, PA  
Anticipated Graduation: June 2020  
**Cumulative GPA: 3.77**

## Skills and Certifications

- Coding Languages: Java, HTML, JavaScript, Python, C++, C#, Swift, R, Racket, Bash, MIPS
- Software: IntelliJ, Atom, Dreamweaver, PyCharm, Visual Studio, Android Studio, Xcode, Photoshop, Bridge, RStudio, GitHub and Git Shell (VCS), Terminal (Mac), Command Prompt (Windows), DrRacket, Vim, QtSpim
- IT Certifications: TestOut PC Pro, TestOut Network Pro

## Co-op Experience

Children's Hospital of Philadelphia  
Motion-Capture Engineering Clinical Research Assistant

Philadelphia, PA  
September 2016 to March 2017

- Worked with accelerometer- and gyroscope-based wearables to track motion
- Developed code in R to ensure data quality and to produce and format wearable output
- Assisted in the development of a mobile application in Android Studio for at-home wearable use
- Provided technical support to workers who use the wearables
- Created technical documentation and manuals for wearable use

OSIsoft, LLC.  
Software Developer

Philadelphia, PA  
September 2017 to March 2018

- Helped convert from the PI Vision 3 to the PI Vision 4 web-client visualization tool
- Developed telemetry code in C# to track usage of the PI Vision conversion tool
- Designed an interface in Microsoft Power BI to display user program usage
- Created an application in WPF and C# to more easily mass-apply PI ProfileView configurations

## Technical Project

F.I.N.N. the Robot Butler  
Project Manager

Philadelphia, PA  
January 2016 to June 2016

- Programmed a robotic arm and chassis in Python which ran through a Raspberry Pi mini-computer
- Integrated and programmed Bluetooth functionality to allow for remote connection
- Coordinated team roles and tasks and conducted effective execution of weekly plan and schedule
- Implemented a well-defined methodology to maximize potential of successful and timely outcome

## Relevant Coursework

Computer Programming I, II  
Mathematical Foundations of Computer Science  
Web and Mobile App Development  
Systems Architecture

Advanced Programming Tools and Techniques  
Data Structures  
Software Design

## Activities and Affiliations

- Drexel University Photography Club, Vice President, Philadelphia, PA, 2016 to Present
- Pi Lambda Phi, Rush Chair, Philadelphia, PA, 2018 to Present
- The National Society of Collegiate Scholars, Philadelphia, PA, 2016 to Present
- Nationalities Service Center, Philadelphia, PA, 2016
- Rotary International, Beaver Falls, PA, 2015

## Scholarships, Honors, and Awards

- A.J. Drexel Scholarship, Drexel University, 2015 to Present
- Monaca PNA Scholarship Fund, Polish National Alliance, 2015 to Present
- Dean's List, Drexel University, All Terms for 2015-16 and 2016-17 Academic Years
- Computer Science Award, Blackhawk High School Department of Computer Science, 2015