

# Joey Perme

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## Education

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### University of Dayton

Master of Computer Science Candidate, 3.916

May 2018 - May 2020

Graduate Assistant in Computer Science

August 2018 - Present

- Algorithms & Programming 1 & 2 | Java

Bachelor of Science, Computer Science, 2.9

May 2016

### Select Courses

Artificial Intelligence

Safe & Secure AI Systems

Linux Programming in C

Computer Vision

Design & Analysis of Alg.

Evolutionary Computing

## Professional Experience

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### Siemens PLM

January 2017 - April 2018

Cyber Security Software Engineer

- Tightened SDLC feedback loop by automating code analysis upon submission to CI system.
- Worked cross-team to track down and address potential security concerns in C/C++ codebase.
- Performed and validated continuous dynamic analysis of deployments improving product security.
- Consistently evaluated new security tools to automate and integrate into our SDLC.
- Created framework leveraging LDAP hierarchy for test coverage and security report accountability.

### Hyland Software

May 2016 - December 2016

QA Solution Developer

- Assisted in basic design & implementation of tools to improve processes used by R&D departments.
- Communicated cross-team to accommodate needs and design details from groups we supported.
- Helped design and implement C# web app to save teams 90% of previous software packaging time.
- Assisted in training and support of end-users on developed applications throughout their lifecycles.

## Select Personal Projects

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### Runescape Skill Bot | Tensorflow, Python

October 2018 - Present

- Trained Tensorflow model to detect coordinates of tree sprites onscreen in Runescape.
- Integrated bot detection avoidance by introduction of human-level mouse movement errors.

### Twitter Topic Location Map | Google Maps API, Twitter API, Nodejs, Go, microservices

August 2018

- Horizontally scalable distributed service for tracking Twitter topics geographically in realtime.
- Utilizes Twitter streaming API for realtime tweet information and Google Maps API for plotting.
- Comprised of two microservices (Nodejs), one web server (Go), and one web client application.

### Robinhood Trading Clients | Robinhood API, NewsAPI, Electron, NodeJS, Go

July, 2017

- Go CLI client that uses Robinhood app's user-documented API.
- Companion graphical client created using Electron; can log in and handle accounts with 2FA.
- Integrated Newsapi.org API for streaming news in trading web app.

### Multingenium | distributed computing, multithreading, synchronization, Go

May, 2016

- Proof-of-concept simple distributed system written in Go.
- Associated paper written in  $\LaTeX$ , with class presentation and demo.
- Supports distributing client-demanded work and chatting among peers.

## Achievements & Personal Interests

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### Outstanding Service to the Department – University of Dayton CPS Dept.

May 2016

Given to the student who goes above and beyond to help the department and the students.

### Professional Memberships

Infragard, Northern Ohio

Association for Computing Machinery