

Joey Perme

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Education

University of Dayton

Master of Computer Science Candidate, 4.0

May 2018 - May 2020

Graduate Assistant in Computer Science

August 2018 - Present

- Algorithms & Programming 1 & 2 | Java

Bachelor of Science, Computer Science

May 2016

Select Courses

Artificial Intelligence

Safe & Secure AI Systems

Linux Programming in C

Computer Vision

Design & Analysis of Alg.

Evolutionary Computing

Professional Experience

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

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

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