

Joey Perme

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Education

University of Dayton

Master of Computer Science Candidate, 3.833

May 2018 - May 2020

Graduate Assistant in Computer Science

August 2018 - Present

- Algorithms & Programming 1 & 2 | Java
- Creative Media Applications | Python, Blender

Bachelor of Science, Computer Science, 2.918

May 2016

Select Courses

Artificial Intelligence

Safe & Secure AI Systems

Secure App Development

Computer Vision

Design & Analysis of Alg.

Deep Learning

Professional Experience

Twilio

May 2019 - Present

Software Engineer Intern

- Worked on Dockerized application to monitor Github PRs as they're committed.
- Utilized Celery task queue with Redis backend for plugin loading and PR scanning.
- Designed system for custom Python plugin creation and dynamic loading.
- Partook in penetration tests, code reviews, and threat modeling for Twilio products and features.

Siemens PLM

January 2017 - April 2018

Cyber Security Software Engineer

- Tightened SDLC feedback loop by automating static code analysis upon submission to CI system.
- Worked cross-team to address potential security concerns in C/C++ SOA/microservice architecture.
- Performed and validated continuous dynamic analysis of deployments improving product security.
- Consistently evaluated new security tools to automate and integrate into our SDLC.

Hyland Software

May 2016 - December 2016

QA Solution Developer

- Assisted in basic design & implementation of tools to improve processes used by R&D departments.
- 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

Trading Tools & Clients | Robinhood API, NewsAPI, Python, Electron, NodeJS, Go July, 2017 - Present

- Go and Python CLI clients to automate trading strategies for me while at work or otherwise busy.
- Companion graphical client created using Electron; can log in and handle accounts with 2FA.
- Discord bot serving 400+ investors & traders with real-time data, charts, & and research capabilities.

Twitter Topic Location Map | Google Maps API, Twitter API, Nodejs, Go, microservices August 2018

- Distributed service for tracking Twitter topics geographically in realtime.
- Utilizes Twitter streaming API for realtime tweet information and Google Maps API for plotting.

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