

William Toher

309 585 8422 | will.toher.0@gmail.com | Chicago, IL | willtoher.com

Education

Bachelor of Computer Science University of Illinois at Chicago 3.7/4.0 Jan 2017 – May 2019

Work History

Product Orderability Operations Intern Motorola Solutions, Inc. Jun 2018 – Aug 2018

- Worked with partner to write automation code comprising 2000+ SLOC of JavaScript and PowerShell
- Used tree-pruning algorithms to improve script runtime from > 30 minutes to ~ 10 seconds
- Developed visualizations for internal structure of database and function call graph using D3.js

Teaching Assistant & Tutor University of Illinois at Chicago Sep 2017 – Apr 2018

- As Teaching Assistant, supported 200-level Machine Organization class focusing on basic assembly programming, processor design, and optimization of C code with respect to memory, cache, and instruction pipeline
- As Tutor, supported introductory-level students in learning programming through Python, C, C++, and MATLAB
- Worked to prepare a diverse, nontraditional student body for success using a variety of academic strategies

System Administrator Zeiler Insurance Services, Inc. Jun 2016 – Aug 2017

- Managed internal technological infrastructure for independent small business as sole on-site IT employee
- Developed and managed MS Access database and desktop Electron application; consulted on future IT development
- Integrated undocumented vendor APIs into reporting workflow using MitmProxy, Python, and PowerBI
- Collaborated with employees and management to implement significant productivity improvements

Personal Projects

- LUG Website Backend lead for UIC's Linux User Group website refresh; oversaw team working on Python/Flask API
github.com/lugatuic/lug.cs.uic.edu-2018
- Nudgebot Scheduled reminder chatbot written in Typescript with language processing using PEG.js grammar
github.com/wilt00/nudgebot
- Porter Ruby service using Sinatra to expose RESTful API for LDAP authentication
(unpublished)
- Vim-y86-Syntax Vim plugin to support syntax highlighting for academic RISC assembly language y86
github.com/wilt00/vim-y86-syntax

Pull requests accepted by several open source projects, including google/clasp

Skills

Languages: Bash, C, C++, F#, Java, JavaScript (Pre- and Post-ES6), LaTeX, OCaml, PowerShell, Python, R, Ruby, SQL, Typescript

Tools & Libraries: Access, Active Directory, Apache Httpd, Azure, Callgrind, D3, Excel, Flask, Git, Jekyll, MATLAB, MitmProxy, MongoDB, Hyper-V, perf, PowerBI, Sharepoint, Shiny, Systemd, Valgrind, Vim, VirtualBox, WSL

Volunteering and Misc.

President ACM@UIC May 2018 – Present

- Organized events, company visits, and trips for over 100 members; managed club finances in excess of \$10,000

Pathfinder/Phoneroom Trainer PATH Crisis Center Jan 2014 – Dec 2015

- Answered calls on crisis, informational, and suicide hotlines; offered emotional support to callers

Amateur Radio Licenses: US General Class (KB9WFW), UK Full (M0VLI, former)

Formerly Licensed Property & Casualty Insurance Producer, IL