

Owen W. McGrath

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Education **Co-terminal M.S. and B.S. of Computer Science** **May 2024**
ILLINOIS INSTITUTE OF TECHNOLOGY CHICAGO, IL
Graduated *summa cum laude* with 4.00 graduate GPA, 3.91 undergraduate GPA, and Dean's List every semester. Invited to and joined YIIE honor society. Took extra coursework in distributed systems, HPC, OS, compilers, machine learning, and theory.

Summary

- I am seeking a C++ software developer position where I can use my skills and experience writing high-performance and distributed software.
- I worked for two years in Illinois Tech's Data-Intensive Distributed Systems lab, where I gained experience writing high-performance, parallel applications and evaluating them on Linux-based supercomputing nodes.
- I am experienced in Linux development, including package management, scripting, and configuration. I have written parallel and network-based applications, including a simple blockchain from scratch in C++/C.
- I am quick to adapt to new technologies and tools.
- I am experienced with database systems, both on the user end and the developer end. I have used databases in various projects, and wrote a simple DBMS from scratch in C.

Technical Skills Expert using C, C++, Haskell, Bourne shell, Linux & Unix-based systems, Make, Git, vi, ssh, and the Nix package manager. Experienced in OpenMP, RPC, Intel oneAPI for HPC, systems administration, socket-level TCP/UDP network programming, Clojure, Ocaml, Tcl/Tk, TeX, Troff, front-end web development, back-end web development with Node.js and PHP, and Yacc/Lex.

Experience **Student Ambassador** **February 2023 – May 2024**
INTEL CORPORATION CHICAGO, IL
Trained by Intel in the usage of their oneAPI platform for high-performance computing. Developed and shared projects using Intel technologies with other students. Recognized by Intel as a oneAPI expert.

Research Assistant **June 2022 – May 2024**
IIT DATASYS LAB CHICAGO, IL
Investigated Intel oneAPI, specifically focused on DPC++ and oneTBB. Evaluated the suitability of those components for very fine-grained parallelism with various benchmarks. Began learning about oneTBB's source code, specifically the scheduler.

Web Developer and Webmaster **June 2021 – Present**
FREELANCE CHICAGO, IL
Designed and developed websites from the ground up for local businesses. Optimized site source code for standards-compliance and decreased loading times. Managed domain name and hosting services for websites.

Awards and Certifications **Web Fundamentals, 2nd Nationally** **May 2018**
BUSINESS PROFESSIONALS OF AMERICA
Competitive national award of HTML and CSS proficiency achieved at BPA's National Leadership Conference 2018 in Dallas, Texas. Entry required placing highly in regional- and state-level competitions.

Volunteer Experience **Dog Care** **September 2020 – July 2021**
HINSDALE HUMANE SOCIETY HINSDALE, IL
Interacted with and cared for dogs housed at the shelter. Walked dogs following volunteer operating procedures.

Recreation Martial Arts

2007 – Present

Shōtōkan Karate (ISKC), 2007 – 2012. Brazilian Jiu-Jitsu (Gracie Barra, Uflacker Academy), 2013 – 2018. Tang Soo Do (Fighting Hawk TSD), 2021 – Present.

Last updated on 7/2/2024.