

# Karl Hallsby

karl.hallsby.com

karl@hallsby.com

LINKEDIN: karlhallsby

## Education

---

M.S. Computer Engineering, Specializing in Computer Systems Software, Illinois Institute of Technology  
Expected Graduation: 2022.

B.S. Computer Engineering

- Illinois Institute of Technology Expected Graduation: 2022. **GPA:** 3.953
- Study Abroad: Lunds Tekniska Högskola Lund, Sweden, 2019 — 2020

### Course Work

Digital System Design	DC/AC Circuit Analysis	Computer Architecture and Assembly
Thermo-Fluid Dynamics	Probability and Statistics	Complex Variables and Matrix Algebra
Secure System Design	Network Architecture	Concepts of Programming Languages
Systems Programming	Functional Programming	Object-Oriented Programming
Compilers	Operating Systems	Data Structures and Algorithms

## Proficiencies

---

### Programming Languages

- C
- C++
- Java
- Python 3
- Haskell

### Hardware

- Oscilloscope
- Analog/Digital Function Generator
- Digital Logic Analyzer

### Software

- Git
- L<sup>A</sup>T<sub>E</sub>X
- LINUX
- textscNix
- Microsoft Office Suite

### Human Languages

- English, Native.
- Spanish, Fluent.
- Swedish, Beginner.

## Professional Experience

---

JUL 2020 — AUG 2020 | Intern at Mazarine Ventures, Chicago, IL  
MAY 2019 — AUG 2019 | *Technical Specialist*

- Worked with partners in VC firm to refine and automate deal flow database.
- Redesigned and automated website.

MAY 2018 — AUG 2018 | Intern at Nalco Water, an Ecolab Company, Naperville, IL  
DEC 2017 — JAN 2018 | *Technical Manual Specialist*

- Reviewed, revised, edited, and drafted technical manuals for equipment used in water treatment.
- Created training materials for new employees and helped develop training curriculum.
- Created automated templates and formatting macros for others to use in developing new manuals adhering to department standards.
- Created code in VBA for automated pricing tools, integrating MS Word and MS Excel, and developed training materials for sales team.
- Using Adobe RoboHelp, converted manuals to a cloud-based HTML5 version, allowing access to manuals from mobile phones, tablets, and laptop computers.

## Other Activities

---

Triangle Fraternity, Armour Chapter Fileserver/Website Administrator

CyberHawk Security

Participate in bug bounties, capture-the-flag competitions

Eta Kappa Nu, HKN — Member of IEEE honor society

Martial Arts Club — Vice President (2018), 3<sup>rd</sup> Degree Black Belt, Tang Soo Do Instructor

## Honors

---

Illinois Institute of Technology — Dean's List

2017 — 2019

Illinois Institute of Technology — Camras Scholarship

2017 — Present