

Karl Hallsby

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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
- MC68k Assembly
- MIPS
- Java
- Python 3
- Haskell

Hardware

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

Software

- Git
- L^AT_EX
- LINUX
- NIX
- Microsoft Office Suite

Human Languages

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

Professional Experience

Intern, Mazarine Ventures, Chicago, IL
Technical Specialist

JUL 2020 — AUG 2020
MAY 2019 — AUG 2019

- Automated and refined deal flow database with partners in VC firm.
- Redesigned and optimized website.
- Unified digital presence through common media collection and sharing tool.
- Organized and documented networking configuration of firm's online resources.

Intern, Nalco Water, an Ecolab Company, Naperville, IL
Technical Manual Specialist

MAY 2018 — AUG 2018
DEC 2017 — JAN 2018

- 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), 3rd 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