

# Trinity Kleckner

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## EDUCATION

**Haverford College-** Haverford, PA Expected May 2024

B.S. in Computer Science; concentration in models of cognition and information processing; minor in religion.

**University of Pennsylvania-** Philadelphia, PA Expected May 2025

Accelerated M.S.E. in Robotics candidate

**Aquincum Institute of Technology (*study abroad*)-** Budapest, Hungary August-December 2022

Relevant Coursework: Machine Learning, Data Science, Data Structures, Systems Programming, Scalable Development, Applied Cryptography, Programming Languages, Theory of Computing, Linear Programming, Linear Algebra.

## SKILLS

**Programming:** Python, Java, C, C++ (proficient); JavaScript, Bash, HTML/CSS, VBA, R, Racket, Assembly (basic)

**Technical:** Django, GitHub, LaTeX, Kubernetes, Jupyter Notebooks, Google Suite, Microsoft Office, IBM Cloud

**Personal:** Quick and Eager Learner, Communication, Critical thinking, Leadership, Problem solving, Teaching

## WORK EXPERIENCE

**Grant Exec:** Startup Company Matching Clients to Grant Funding Opportunities Remote  
*Software Developer* August 2022-Present

- Creating scripts to automate database updates, as well as to pull, clean, and parse data
- Developing scripts to match client profiles with qualified grant opportunities
- Building the underlying algorithm that ranks the returned matches based on client inputs

**International Business Machines (IBM)** Bethesda, MD

*Technology Engineer/Developer Intern, IBM's Client Engineering* May-August 2022

- Developed visuals to capture KPI and performance data used to create a cybersecurity monitoring dashboard for one of IBM's largest financial services accounts
- Built interactive internal and customer-facing dashboards to streamline and automate response to user inquiries
- Developed Django WebApp to support multiple communication hubs, notification and chatbot systems.
- Built utility and social services information dissemination platform for municipal client using IBM Watson suite
- Completed 100+ hours of IBM online courses, earning 5 digital credentials

**Haverford College** Haverford, PA

*Research Assistant-* Simultaneous Machine Translation Research with Dr Grissom II March-June 2022

- Trained four transformer models as translators and analyzed their ability to translate incomplete sentences
- Wrote scripts to extrapolate accuracy data and generated plots to demonstrate key findings

*Teaching Assistant-* Intro to CS | Data Structures and Algorithms September 2021-Present

- Held office hours and attended lab sessions to help students understand course material
- Graded assignments in python and java

## LEADERSHIP EXPERIENCE

**Co-President of HaverCode-** Haverford's CS Student Organization February 2022-Present

- Partnered with CS Department, and established routine meetings to discuss issues such as inclusivity and culture
- Hosted workshops and create resources for CS students to provide support for liberal arts students pursuing tech
- Mentor students academically, professionally, and personally to help them set and achieve goals.

**Hiring Committee Student Representative** (CS Department) March 2022-Present

- Attend prospective interviews with prospective professors and aid in deciding who would best fit the open role

## PROJECTS

**AltruSMS ([Git Repo](#))-** Won best hack for social good @ Drexel's Philly Codefest April 2022-Present

- SMS chat bot provides an internet-independent channel of communication with unhoused and low-income people
- Uses the names of two intersecting roads to determine location and provide directions to the nearest shelter
- It is a Django based app deployed through Heroku using Twilio and various API's

**Power Outage Hub** Summer 2022

- A web app and chat bot designed to help people prepare for, get through, and recover from power outages
- Developed Django WebApp and Watson chat bot with a AI trained search feature. Connected the chatbot to the app using Twilio, and deployed the app locally using Docker then to a Kubernetes cluster on IBM Cloud.