

Roman Hauksson

@ Email |  LinkedIn |  GitHub |  Blog |  Dallas, Texas

EDUCATION

University of Texas at Dallas

B.S. in Computer Science

Aug 2021 – May 2025 (Expected)

WORK EXPERIENCE

Joint Special Operations Command

Software Engineering, X-Force Fellowship Program

Virtual

Jun 2022 – Aug 2022

- Improved front end for internal full-stack application using Typescript and React.js.
- Created Python wrapper for internal Node.js API with automatically generated documentation.

Capital One

Software Engineering, Technology Early Internship Program

McLean, Virginia

Jun 2023 – Aug 2023

RESEARCH

Automating Targeted Password Guessing

Team Lead, ACM UTD Research Program

Dec 2021 – Apr 2022

- Refined a GPT-3 model on user data from the 2020 Wattpad security breach to explore the use of large language models to generate targeted password guesses.
- Our model was >3 times as accurate as the baseline (non-targeted guessing from a common passwords list).
- Won the ACM Research presentation contest versus 5 other teams and amassed 51 stars on GitHub (most in the program's history).

We'll Pwn You With Your Wattpad Profile

Conference Talk, Hackers on Planet Earth

Jul 2022

- Went over the basics of password cracking to help the audience learn about password security from the hacker's perspective and presented my research project *Automating Targeted Password Guessing* (listed above).

Analysis of Language Trends with a Mobile Keyboard Next-Word Prediction Model

Participant, ACM UTD Research Program

Sep 2021 – Nov 2021

- Trained a long short-term memory neural network model on Tweets from different subgroups on Twitter, using Tensorflow, with a team of 4.
- Won the ACM Research presentation contest versus 5 other teams.

LEADERSHIP

ACM UTD Research Program

Director

May 2022 – Dec 2022

- Directed a semester-long program with a ~15% admission rate to help undergraduate students at UT Dallas try out computer science research.
- Managed 4 teams of 6 students each who worked on projects about topics ranging from cybersecurity vulnerability analysis to explainable AI to computer vision.
- Hosted the ACM Research Symposium, where an audience of 50+ students saw each team present.

Effective Altruism UT Dallas

President & Co-Founder

Aug 2022 – Present

ACHIEVEMENTS

National Merit Scholarship: Scored in the top 1% on the PSAT and given full-ride scholarship to UT Dallas.

TexSAW 2022 Capture The Flag Winner: Won a cybersecurity CTF competition with a partner.

HackUTD VIII Nebula API Challenge Winner: Learned Flutter at a hackathon on a team of 4; helped design and code front end for an app to help international students.