

# Roman Hauksson

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## EDUCATION

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### University of Texas at Dallas

B.S. in Computer Science, National Merit Scholar

Aug 2021 – Dec 2025 (Expected)

## WORK EXPERIENCE

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### Capital One: Software Engineering Intern (McLean, Virginia)

Jun 2023 – Aug 2023

- Created front end for Chrome extension using React.js. Refactored build tool to increase preview speed by 300%.
- Completed 4-week curriculum on full-stack technologies including Go, React, and Linux.

### Joint Special Operations Command: Software Engineering Intern (Virtual)

Jun 2022 – Aug 2022

- Created Python interface for internal Node API with automatically generated documentation.

## PROJECTS

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### Demo for “I” (Figma, Next, Vercel, Supabase, Tailwind)

- Designed and created full-stack demo for a friend’s startup, a platform for investing in founders’ future incomes.

### MF FOOM (Python, GPT-3, ElevenLabs)

- Fine-tuned GPT-3 on the lyrics of 96 MF DOOM songs to write lyrics in his style, then cloned his voice to edit those lyrics into a song.

### Just Arrived – HackUTD VIII (Flutter)

- Designed and coded front end for an app to help international students; won Nebula API Challenge.

### Manifold Markets Depth Chart Feature (React, Typescript)

- Created React component to visualize the market depth of prediction markets.
- Won 3rd place in Manifold Markets Hackathon and pushed it to production on a site with 1000+ daily active users.

## RESEARCH

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### ACM UTD Research Program: Director

May 2022 – Dec 2022

- Directed a semester-long program with a ~15% admission rate to help undergraduates try out CS research.
- Managed 4 teams of 6 students each and hosted the research presentation event for 50+ attendees.

### ACM UTD Research Program: Team Lead

Dec 2021 – Apr 2022

- Fine-tuned GPT-3 on user data to explore the use of language models to generate targeted password guesses.
- Achieved >3 times higher accuracy than baseline, won the research presentation contest versus 5 other teams, and amassed 61 stars on GitHub.

### ACM UTD Research Program: Participant

Sep 2021 – Nov 2021

- Trained an LSTM model on Tweets from different subgroups on Twitter, using Tensorflow, with a team of 4.
- Won the research presentation contest versus 5 other teams.

## EXPERIENCES

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### Program on AI and Reasoning (Cambridge, UK)

Aug 2023

- Learned about AI and cognition at a 10-day camp for mathematically talented students (2.5% acceptance rate).

### We’ll Pwn You With Your Wattpad Profile (New York, New York)

Jul 2022

- Delivered talk on password cracking at the Hackers on Planet Earth conference to an audience of 20+ hackers.

### TexSAW 2022 Capture The Flag Winner (Dallas, Texas)

Apr 2022

- Won a cybersecurity CTF competition with a partner against 10+ teams.