ROMAN HAUKSSON

🌐 Website   in LinkedIn   GitHub   ✉ Email

EDUCATION

University of Texas at Dallas   **Dallas, TX**

B.S. in Computer Science   *Aug 2021 – Dec 2025 (Expected)*
- National Merit Scholar, Cybersecurity Group officer, Open Source Software Club officer

WORK EXPERIENCE

Capital One   **McLean, VA (Hybrid)**

Software Engineering Intern   *Jun 2023 – Aug 2023*
- Created Chrome extension using React, 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   **Remote**

Software Engineering Intern   *Jun 2022 – Aug 2022*
- Created Python interface for internal Node API

RESEARCH EXPERIENCE

Dioptra   **Remote**

Independent Research Assistant   *Dec 2023 – Current*
- Creating benchmark to test the strategic reasoning ability of large language models
- Coded benchmark task, conducted literature review, wrote related works section, did factor analysis

ACM UTD Research Program   **Dallas, TX**

Director   *May 2022 – Dec 2022*
- Directed semester-long undergraduate research program with 15% admission rate
- Managed 4 teams of 6 students each; hosted poster presentation event for 50+ attendees

Team Lead   *Dec 2021 – Apr 2022*
- Fine-tuned GPT-3 to generate targeted password guesses, achieved 3+ times higher accuracy than baseline, won poster presentation contest versus 5 other teams, amassed 70 stars on GitHub
- Presented separately at the Hackers on Planet Earth conference to audience of 20+

Assistant   *Sep 2021 – Nov 2021*
- Trained LSTM model with team of 4, won poster presentation contest versus 5 other teams

PROJECTS

Demo for "I" ☑ Designed and coded simulated trading platform for securitized income share agreements

Manifold Markets depth chart feature ☑ Created React component to visualize prediction market depth, won 3rd place in hackathon, pushed to production on site with 800+ daily active users

Lines Tangent to Two Circles ☑ Derived equations for lines tangent to two circles on the coordinate plane

MF FOOM ☑ Fine-tuned GPT-3 to generate song lyrics and created AI voice clone to sing them

Just Arrived ☑ Designed and coded frontend for app to help international students, won hackathon challenge

PROFESSIONAL DEVELOPMENT

Global Challenges Project Existential Risk Workshop Berkeley, CA   *Nov 2023*

Program on AI and Reasoning Cambridge, UK   *Aug 2023*
- 10-day camp on AI and cognition, 2.5% acceptance rate

AI Safety Workshop Berkeley, CA   *Nov 2022*

Effective Altruism Introductory Program Remote   *Oct 2022 – Nov 2022*

CodePath Cybersecurity Course Remote   *Jan 2022 – Apr 2022*