

Thor Callan Truelson

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EDUCATION

University of Texas at Austin

Masters of Computer Science

Austin, TX

January 2025 - Present

Carnegie Mellon University

Bachelors of Artificial Intelligence

Pittsburgh, PA

August 2020 - May 2024

- Artificial Intelligence degree with several class in traditional Computer Science, Data Science, and Statistics
- **Recent Coursework:** Deep Learning Systems, Distributed Systems, Search Engines
- Dean's List High Honors 2022, University Honors

Trinity Valley School

Highschool Diploma

Fort Worth, TX

May 2020

- Valedictorian, Football and Lacrosse Captain, President of Economics and Tutoring Clubs

EXPERIENCE

Lockheed Martin Aeronautics Fort Worth, TX *Software Engineer*

June 2024 - Current

- Developed v1.0 VOIP Architecture for Lockheed Martin's 5G.MIL program.
- System and Software Architecture design role for the 5th gen Crewed-Uncrewed Teaming program. Collaborated across multiple teams and companies to design robust platform communication architecture.
- Research in Artificial Intelligence methods to improve network benchmarks in large FANET networks.

Bohemia Interactive Simulations Pittsburgh, PA *Software Engineering Intern*

May 2023 - August 2023

- Implemented upgrades to S3 MinIO file service, primarily motivated by lack of HTTPS support and depreciated software. Used OpenSSL, Nginx, AWS SDK and Minio to demonstrate 86% faster HTTPS supported file upload speed over previous system iterations using S3.

National Financial Partners Pittsburgh, PA *Software Engineering Intern* May 2022 - August 2022

- Developed web scraper tool for creating summaries of player injuries using NLTK and BeautifulSoup. Application was capable of analyzing 100s of articles and writing player injury reports in minutes.
- Updated and maintained World Baseball Classic Website and Database, deployed on Heroku using RoR.

PROJECTS

Needle, Deep Learning Library

- Implemented a lightweight Machine and Deep Learning Library similar inspired by PyTorch and Tensorflow
- Wide ranging concepts were applied from CUDA backend implementation to automatic differentiation for operators. Concluded with fourier transform support focused on acceleration of Convolution Layers

LEADERSHIP

Carnegie Mellon University Varsity Football

Pittsburgh, PA

Defensive End

August 2020 - Present

- Committed 30+ hours every week for practice, games, lifting, and film
- 2nd Team PAC and UAA All-Academic Team

Alpha Sigma Phi Fraternity

Pittsburgh, PA

Vice President of Philanthropy and Service

May 2022 - May 2023

Alpha Gamma Chapter Member

September 2020 - Present

- Organized Philanthropic events and fundraising for social causes such as the Food Bank of Allegheny County
- Led fundraising for a substantial donation benefitting The Disabled Veterans of America

TECHNICAL SKILLS AND INTERESTS

Major Language Experience: C/C++, Python, Java

Applications: Unix (RHEL and Ubuntu), Git, Docker

Other: Approved US Gov SCI clearance, Strong mathematical background, Native English Speaker

Interests: Football, Golf, Markets and Investment Vehicles, Hard Science Fiction, Emergent Behavior and Simulation