# THORSEN KRISTUFEK

Austin/Dallas,TX + NYC

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## Education

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| **California Institute of Technology** | **Sep. 2021 – June 2025** |
| *Computer Science and Applied Mathematics* | *4.0 GPA* |
| **McKinney High School** | **Aug. 2018 – May 2021** |
| *Valedictorian, National AP Scholar w/ Distinction (20+AP courses), STEM Competitions* | *Rank 1/678* |

## Technical Skills:

- Python/Pytorch/TensorFlow
- Golang, ReactJS
- C, C++
- SQL, NoSQL
- Linear Algebra
- Probability and Statistics
- Systems Programming
- Discrete Math
- Algorithms
- Numerical Analysis

## Experience

**Gecko Robotics + AI ($1B+ Unicorn)** — **July 2025 – Present**
*Forward Deployed Engineer* — *NYC, New York*

- Owned customer focused engineering in Domestic Oil and Gas, Industrial ventures.
- Demo: sprinted on building and presenting demos for prospective and existing clients. Also built production grade applications/services.
- Processed and visualized LiDAR and NDT data and used to build customer facing tools and applications, used by USS, HF Sinclair, etc.
- Built B2B service infrastructure for time series and sensor data providers.

**Virtuous AI** — **September 2024 – December 2024**
*SWE/Data Science* — *Remote*

- Contributing to various projects involving feature engineering, data pipeline creation, and modernization.

**NASA Jet Propulsion Lab** — **June 2024 – August 2024**
*Summer Undergraduate Research Fellowship* — *Pasadena, CA*

- Used statistical models and tools to evaluate AQMD data. Specifically, used mathematical principles to determine first and second order relationships between different compounds ($NH_3$, $NO_x$, etc) and PM2.5 pollution.
- Worked under the mentorship of Sina Hasheminassab and Olga Kalashnikova during this project.

**Graham Partners Private Equity (ABX Packaging)** — **June 2023 – September 2023**
*BI/Software Engineer Intern* — *Remote*

- Developed a price quoting API for one of 8 plants that allows for users to quickly price orders for prospective customers.
- Built a website using python Flask and HTML to access this price quoting API for sales.

## Projects

**2025 Caltech Meeting of the Minds Research** | *RNNs, Graph Theory, ML* — **June 2025**

- Spatial Prediction of Bird Re-encounter via RNNs and Region-Based Network Modeling By Thorsen Kristufek: California Institute of Technology
- Reach out for my research paper and details.

**Password Cracker** | *C, Concurrent Programming, Virtual Machines, Google Cloud Compute* — **November 2023**

- Wrote a C program utilizing concurrent programming to recover a handful of passwords that had been hashed.
- Used Google Cloud Compute to run this program for over 6 hours and successfully recover the passwords. Used tools like SSH, VM (the Google Cloud Compute), threadpool, etc.
- Wrote a thread-safe queue to support this process and ensure race conditions do not occur

**Marketplace Scraping Software** | *Python, Selenium, Flask, Server Management* — **July 2023**

- Designed a scraping program that allows for users to do a keyword search on Facebook Marketplace, Amazon, etc. and email them with new listings that relate to that keyword within their area.
- Used Selenium and Beautiful Soup to scrape desired website and return new listings.Would compare listings to recently sold listings with the most similar listing titles/descriptions.

## Personal:

Former NCAA Baseball Player, HS All American Baseball, Video Games, Outdoorsman, Interested in Jiu Jitsu