Michael McKinsey

EDUCATION

TEXAS A&M UNIVERSITY
M.S. in Computer Science
December 2024 | College Station, TX
GPA: 3.8 / 4.0

TEXAS A&M UNIVERSITY
B.S. in Computer Science
Minor in Mathematics
May 2022 | College Station, TX
GPA: 3.8 / 4.0

COURSEWORK

GRADUATE
ML
Deep Learning
Deep Reinforcement Learning
Large-scale Optimization for ML
CS
Computer Architecture
Theory of Computability
STAT
Distribution Theory
Regression Analysis

UNDERGRADUATE
ML
Machine Learning
Artificial Intelligence
CS
Parallel Computing
Operating Systems
Analysis of Algorithms
Data Structures & Algorithms
MATH
Linear Algebra
Discrete Mathematics
Calculus I-III
Comm. and Cryptography I & II
Differential Equations

LINKS

Email: mckinsey@tamu.edu
Github: MichaelMcKinsey1
LinkedIn: michaelmckinsey2000
Twitter: MichaelMcKins
Website: michaelmckinsey.net

WEBSITE QR CODE

EXPERIENCE

RESEARCH
LLNL | PAVE | Thicket
- Graduate Student Intern | January 2022 - Current

ACADEMIC
Texas A&M University | Computer Science and Engineering
- Teaching Assistant | August 2022 - December 2022
- Teaching Assistant | August 2023 - December 2023

INDUSTRY
Workrise | Engineering Enablement | Tonic Project
- Software Engineering Intern | June 2021 - August 2021

Workrise | Data Engineering | Amundsen Project
- Software Engineering Intern | June 2020 - August 2020

CYBERSECURITY
Texas A&M University | IT Security Operations | CAP Program
- Senior Student Security Analyst | September 2019 – June 2020
- Student Security Analyst | January 2019 - September 2019

PUBLICATIONS

[1] Olga Pearce, Jason Burmark, Rich Hornung, Befikir Bogale, Ian Lumsden, **Michael McKinsey**, Dewi Yokelson, David Boehme, Stephanie Brink, Michela Taufer, and Tom Scogland. "RAJA Performance Suite: Performance Portability Analysis with Caliper and Thicket". In: *ACM/IEEE International Conference for High Performance Computing, Networking, Storage, and Analysis*. Supercomputing. 2024.

[2] **Michael McKinsey**, Stephanie Brink, and Olga Pearce. "Using Parallel Performance Data to Classify Parallel Algorithms". In: *Proceedings of the 15th International Conference on Parallel Processing & Applied Mathematics*. PPAM '24. 2024.

[3] Stephanie Brink, **Michael McKinsey**, David Boehme, Connor Scully-Allison, Ian Lumsden, Daryl Hawkins, Treece Burgess, Vanessa Lama, Jakob Lüttgau, Katherine E. Isaacs, Michela Taufer, and Olga Pearce. "Thicket: Seeing the Performance Experiment Forest for the Individual Run Trees". In: *Proceedings of the 32nd International Symposium on High-Performance Parallel and Distributed Computing*. HPDC '23. 2023.

SKILLS

Languages
Python • C++
Prog. Models
CUDA • MPI • OpenMP
Tools
Data: Matplotlib, NumPy, Pandas
Perf: Caliper, Hatchet, Thicket
ML: PyTorch, Scikit-Learn
DevOps: Airflow, GCP, Docker, Pytest, Snowflake, Terraform
HPC
Slurm, LSF
Misc.
Bash, CMake, Git, LaTeX, Linux