Daniel Johnson

 $\frac{\text{linkedin.com/in/danielrjohnson00/} \mid \text{github.com/DanielRJohnson} \mid \text{danielrjohnson.dev}}{\text{danielrjohnsonprofessional@gmail.com} \mid (913)-231-9212}$

EDUCATION

University of Kansas (KU)

Lawrence, Kansas Expected May 2024

Master of Science in Computer Science

• GPA: 4.00/4.00 | Focus: Machine Learning & High Performance Computing

Bachelor of Science in Computer Science

May 2022

• GPA: 3.74/4.00 | Upsilon Pi Epsilon Honors Society (Top 30% of Class) | Niehaus Award for Best Capstone

Relevant Coursework: Machine Learning (3 courses), Software Engineering (3 courses), Data Structures and Algorithms (3 courses), Programming Languages (3 courses), Data Science (2 courses), Database Systems, Applied Statistics, Linear Algebra

Work Experience

Graduate Intern (CCS-7)

May 2023 – Present

Los Alamos, NM & Remote

Los Alamos National Laboratory

- Improve Continuous Integration (CI) pipelines for the automated building and testing of multi-physics simulations
- Contribute design and development to the open-source LANL Data Science Infrastructure (DSI) project
- Gear innovations in project work towards the goal of publishing papers in top venues

Graduate Teaching Assistant (GTA)

August 2022 – Present

University of Kansas School of Engineering

Lawrence, KS

- Give lectures on Pandas and Deep Learning for EECS 835: Advanced Data Science (Fall 2023)
- Direct lab sections and grade assignments for 40+ students in EECS 268: Programming 2 (Fall 2022, Spring 2023)
- Was awarded the Paul F. Huebner Memorial Award for excellence in teaching

Software Development Intern

May 2022 – August 2022

Paycom

Oklahoma City, OK

- Worked with a team to develop an internal tool that parses documentation from 90,000+ source files and uploads formatted documentation to an internal site using a REST API
- Wrote unit and integration tests to systematically verify implementation correctness achieving 100% test coverage
- Presented the project to the CIO and other development management to show usage and monetary value

Leadership Experience

Vice President and Co-Founder

February 2021 – Present

KU Artificial Intelligence Organization

Lawrence, KS

Manage and work on team-oriented projects using applied artificial intelligence, run weekly meetings, help with
organization funding and campus relations, and present informative workshops on the fields of AI and ML

Projects

MatProp | Python

Spring 2023

- Compact backpropagation engine and neural network framework that provides a PyTorch-like interface for defining and training neural networks using autograd-supported matrix operations
- Thoroughly tested against PyTorch to ensure that its calculations of values and gradients are correct

sensor data on an Android device, presented with an eight page research paper

MOBIUS | Python

Spring 2022

- Full data pipeline for training machine learning models to classify user keystrokes based on gyroscope and accelerometer
- Employs asynchronous polling of sensors, data processing with NumPy and Pandas, and uses a Tensorflow RNN model

TECHNICAL SKILLS

Languages/Tools: Python, C++, Go, Rust, C, JavaScript, C#, Haskell, SQL, Bash, Git, Gitlab CI/CD, Docker, Jupyter Libraries/Frameworks: NumPy, Pandas, Tensorflow, PyTorch, CUDA, Scikit-Learn, Matplotlib