Logan Jackson

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EDUCATION

The University of Texas at Dallas, Richardson, TX   Expected Graduation May 2024
Bachelor of Science, Computer Science

TECHNICAL SKILLS

Languages: Python, Javascript/Typescript, C++, C#, Java, Rust, OCaml, SQL, Julia, Prolog, MATLAB, R, Dart, Swift, Kotlin, Clojure
Markdowns: HTML/CSS, LaTeX, Markdown, Org
Technologies: AWS, GCP, Docker, Mongodb, Postgres, Linux, Git, React, React Native, Flask, Django, ASP.NET, Express.js, Deno, Node.js, Nginx, Numpy, Sklearn, Pandas, Flax, Jax, Tensorflow, Pytorch, Flux.jl, POMDPS.jl, Makie.jl, Plots.jl, Matplotlib, Seaborn

WORK EXPERIENCE

Walmart Global Tech   *June 2022 – August 2022*
Software Engineering Intern
- Incoming Software Engineering Intern for Summer 2022

Dell Technologies   *January 2020 – May 2020*
Software Engineering Intern
- Delegated tasks among 5 project members improving productivity by 75% relative to other intern projects
- Produced an API for communicating between 4 technologies improving the performance of 20 interns

Texas Department of Transportation   *June 2019 – August 2019*
Summer Intern
- Compiled 300+ historical railroad agreements from the past 100+ years and improved the processing of records leading to jobs being done 300% faster
- Recorded 11 semi-weekly meetings with stakeholders, and department heads

ACADEMIC PROJECTS

Machine Learning and Parametric Design for Sustainable Living   *February 2022 - May 2022*
ACM Research Lead
- Lead and mentored a team of 4 undergraduate participants on machine learning and parametric design concepts in weekly meetings leading to better understanding of topics by participants
- Facilitated the communication between 4 undergraduates and a faculty advisor for weekly research meetings

Deep Learning for Brain Disorders   *September 2021 - December 2021*
ACM Research Participant
- Worked with a team of 3 undergraduate researchers and a professor on the task of classifying and detecting brain disorders, developing 5 deep learning models resulting in over 95% test accuracy
- Presented project results at end of semester symposium for 4 professors and an audience of 40+ UTD students

CAPTCHA Image Analysis and Test Automation   *September 2021 - November 2021*
AI Society Mentee
- Collaborated with a team of 2 other students on CAPTCHA test automation and implemented a Convolutional Neural Network which extracts text with over 90% accuracy
- Developed a bot using the model for real world use cases bypassing online CAPTCHA tests with 70% success

PERSONAL PROJECTS

Machine Learning for Stroke Risk Detection
- Trained a Support Vector Classifier model with 97% accuracy to produce real time patient stroke risk evaluations and engineered a frontend user interface for users to receive real time risk evaluation
- Analyzed a dataset containing 12 features correlated with stroke risk to detect emergent patterns