

KAYLEE MARQUEZ

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EDUCATION

The University of Texas at Austin, Austin, TX 08/2020 – 05/2024
Bachelor of Science, Computer Science
GPA: 3.86, 3x University Honors
Past Coursework: Data Structures, Computer Architecture, Probability, Linear Algebra, Multivariable Calculus
Current and Future Coursework: Operating Systems, Algorithms and Complexity

EXPERIENCE

H-E-B, San Antonio, TX 05/2022 – 07/2022
Data Infrastructure Intern

- Provide capacity planning predictions for on-prem MySQL servers using Holt-Winters forecasting
- Query time series data from the performance monitoring application New Relic using its GraphQL API, store data using Amazon S3, and use the Gmail API to send alerts to admins based on projected resource usage
- Set up Databricks jobs to automatically run project components

Developmental Intelligence Lab, Austin, TX 09/2021 – Present
Undergraduate Research Assistant

- Learn about, train, and use object detection models to annotate video data
- Debug and rework Python/FFMPEG scripts used for video processing
- Assist with video and audio data pre-processing and coding

SKILLS AND ABILITIES

Programming: Java, Python (NumPy, Pandas, OpenCV, Keras, Statsmodels, Prophet), C, SQL
Technical: Machine Learning (Computer Vision, Object Detection, Time Series Forecasting), AWS (S3, CloudWatch, EC2), Git, Databricks, Performance Monitoring (Datadog, New Relic)

PERSONAL PROJECTS

Austin Housing Price Predictions Present

- Build and train a neural network using Keras that predicts the price of houses in Austin, Texas based on 14 features, including crime rate, population growth, and secondary school rankings

Wikirace Solver 11/2021

- Java program that finds a shortest hyperlink path between two Wikipedia pages
- Read webpages' HTML source code, parse them, and traverse all relevant hyperlinks using the Jsoup library

CAMPUS INVOLVEMENT

Women in STEM (WiSTEM) 01/2022 – Present
Peer Mentor

- Help incoming freshmen transition to college by introducing them to academic resources and opportunities, connecting them to student organizations, and providing a supportive community for women in STEM

Machine Learning and Data Science Club 08/2021 – Present
Member

- Learn about various machine learning and data science topics through weekly workshops

Women in Computer Science 08/2021 – Present
Member

- Attend corporate networking events, compete in the annual hackathon, and create a community for women who are interested in computer science