Thomas Bolf

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Education

Texas A&M University B.S. in Computer Science and Applied Mathematics (Double Major)
GPA: 3.934 / 4.000 Honors Distinction
Expected Graduation: Spring 2025
Certification: AWS Certified Cloud Practitioner

Relevant Skills

Languages: Java, C/C++, Python, R, PL/SQL, SQL, PostgreSQL
Frameworks and Libraries: Pandas, Flask, TensorFlow, Spark, Springboot, Tidyverse, Terraform
Tools: AWS (EC2, Lambda, Kubernetes, S3, RDS, EMR), Linux, Docker, Control-M, Git

Work Experience

- ***Software Engineer Intern*** ***J.P. Morgan Chase & Co.*** *June 2023 - August 2023*
  - Designed a tool using Java Spark for unit testing
  - Leveraged Java Spark and AWS (S3, EMR, EKS, Lambda) to migrate SQL procedures to cloud environments
  - Modernized repositories using the Spring Boot framework to be compatible with newer Java versions

- ***VP of Marketing*** ***Aggie Eco-Reps*** *May 2022 - May 2023*
  - Managed an organizational website using Wix
  - Lead a group of students in promoting sustainability via educational content on social media

- ***Research Assistant*** ***Texas A&M University*** *August 2022 - May 2023*
  - Conducted experiments to study human-robot interaction in emergency response settings
  - Collaborated with a multidisciplinary research team to translate various forms of complex data into visually engaging graphics for inclusion in a peer-reviewed research paper

- ***IT/Systems Intern*** ***The Community News*** *October 2019 - August 2021*
  - Designed a digital archive for newspapers printed in recent decades
  - Managed subscriber information database, advertiser accounts, and promotional materials

Projects

- ***City Metrics for Dogs***
  - Designed a program in Python to compile a dataset using various public API's to collect data from animal shelters as well as quality of life metrics for cities
  - Used various statistical analysis techniques to reach conclusions about the relationship of animal shelter data and quality of life data for cities

- ***Electrocardiogram Data Analysis (Aggie Research Project)***
  - Used Python to develop a full-scale ETL pipeline for a large time series generated by different medical technologies
  - Used R and Tidyverse to derive valuable insights and perform cross-recurrence quantification analysis with a time series of heart activity