CLAY TRUELOVE

2433 W Leland Ave, Chicago IL 60625

📞 205-499-4742 ✉ ctruelove209@gmail.com 🔗 linkedin.com/in/clay-truelove-a11289288/ ⭘ github.com/ClayUA

Education

The University of Alabama   **December 2024**
Bachelor of Science in Computer Science   *Tuscaloosa, AL*

Experience

CrowdStrike   **January 2025 - May 2025**
Data Engineer I   *Remote*
- Supported a distributed ETL pipeline processing billions of daily events from Kafka, enriching events with ML predictions, and storing in Cassandra.
- Identified and debugged a race condition in a Go service, preventing data loss by implementing proper synchronization mechanisms to ensure data consistency in concurrent method.
- Conducted the discovery and planning phase of a major Cassandra cluster migration, writing formal documents, collecting volume metrics, and coordinating meetings across 6+ engineering teams.
- Enhanced ML model infrastructure by refactoring Dockerfiles to use distroless images, reducing attack surface and meeting internal security standards.
- Triaged microservice issues from internal and external customers using Grafana, Prometheus, and LogScale.

CrowdStrike   **June 2024 - August 2024**
Software Engineer Intern   *Remote*
- Developed a Python tool to efficiently detect and locate inconsistencies in large-scale customer data collections.
- The tool reduced current testing time by over **90%**, and was adopted by the team for use in CI/CD pipelines.
- Used the python tool to detect and specifically locate a major data ingestion bug affecting customers.
- Worked on an agile team, using Jira for planning and issue tracking, and Git for version control.

Projects

Distributed File System | *Golang*
- Constructed a P2P network where each node can act as a client or a server.
- Implemented a custom TCP protocol for reliable and accurate transfer of data between the nodes.
- Partitioned, replicated, and distributed data across nodes, enabling load balancing and increasing fault tolerance.
- Utilized locks, allowing multiple nodes to asynchronously send or receive chunks of data while remaining consistent.

Remnant | *Android Studio, Kotlin, Python, Flask, Docker, PostrgreSQL, AWS EC2*
- Worked on a team conducting weekly stand-ups, emphasizing communication to design an Android App.
- Designed and constructed a database with proper normalization to prevent data redundancy and support scalability.
- Developed and tested API endpoints to allow for quick data retrieval and proper error handling.
- Created UI elements, ViewModels, and API requests in Kotlin.

Sentiment Analysis Model | *HTML, CSS, Javascript, Python, Flask, Keras, Heroku*
- Used Pandas and the Natural Language Toolkit to process and clean raw data to increase model accuracy.
- Implemented a neural network using Keras that achieved test accuracy of 89%, showing strong model performance.
- Built an API using Python and Flask that receives user input and routes it to the trained model.

Technical Skills

Languages: Golang, Python, SQL, CQL,
Technologies/Frameworks/Tools: Linux, Git, Kubernetes, Docker, Pytest, Boto3, Astral UV, Graphite, Grafana, Prometheus, LogScale, Kafka, Docker
Concepts: Agile Methodology, Data Science, API Development, CI/CD Principles, Jenkins, Kubernetes, Automation Testing, Networking