

Thor Landstrom

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Austin, TX

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WORK EXPERIENCE

KNIME

Feb 2024 - Present

Data Science Intern

Austin, TX

- Independently designed, developed, and deployed a [Python program](#) for automatically parsing and translating pptx files using OpenAI's API and deployed it using our company's software. This reduced manual slide deck translation times by up to 80% and allowed users to work on other projects while it translated the files
- Created blog posts and videos showcasing several use cases that have up to several hundred views combined
- Developed finance use cases for using Machine Learning to help detect fraudulent credit card transactions
- Adapted chapter on 'Propensity Score Matching' from [Attribution Modeling by de Haan](#) to our software using R integration and Apache ECharts visualizations ([Workflow](#))
- Collaborated with the Life Sciences team to refactor legacy workflows on various topics such as data visualization/transformation and model training
- Frequently involved in the KNIME forums and helped newcomers at company events to learn the software

Curative

Oct 2021 - Dec 2023

CLIA II

Round Rock, TX

- Implemented a automatic time stamping script for a new workflow introduced when handling patient sample ([Code](#))
- Frequently worked across several departments: Accessioning, Plating, Extraction, PCR, and Alinity
- Helped cross train employees from different departments in the operating processes and workflow of Plating, Extraction, and PCR departments

EDUCATION

Baylor University | GPA: 3.83

- Masters in Computer Science, Software Engineering focus

Baylor University | GPA: 3.43

- Bachelor of Science in Biochemistry, Business Administration minor

SKILLS

Programming Languages

- Python, C++, Java, HTML/CSS, Javascript, SQL

Databases:

- mySQL, MariaDB, MongoDB (NoSQL)

Tools and Technologies:

- Git, Github/Gitlab, JUnit, Flask, Mongo Atlas, React, Knime/Alteryx, Java Spring, Postman, Jenkins, Docker, Jira

PROJECTS

Powerpoint Translator and Parser | [Github Link](#) | [Translator](#) | [Parser](#) | (Python, OpenAI API, python-pptx, KNIME)

- Automates PowerPoint translation for whole documents while preserving original formatting.
- Uses OpenAI's API for text translation without a need for language ISO codes
- Implements rate limiting and automatic font size adjustments to prevent text overflows
- Deployed on KNIME Hub using Knime Analytics Platform for internal use
- Over 100 downloads on the Community Hub combined between both components

Automated Post/Event Timeline | (Java, mongoDB, JUnit, Maven/Spring Boot)

- Used three layered architecture, session/role-based security, and Websockets for a live WYSIWYG editor and for a displaying view
- User and event management (CRUD), post creation with image support, mobile views, an interactive calendar that loads events based on the current week, and cloud-based repository (Mongo Atlas) for team collaboration

Baseball Player Statistics | [Github Link](#) | (Flask, Python, MariaDB)

- Search via playerid which returns a table showing all the different statistics over the player's career. Important calculations such as OBP and PARC were performed to generate additional relevant statistics.
- Used Python and Flask framework for backend; Frontend used HTML and CSS for styling of statistics table
- Reference data used from [Lahman's Baseball Database](#) (converted to be compatible with MariaDB)

CERTIFICATIONS

L4: Text Processing (NLP)

Issued Mar 2024 · Expires Mar 2026

Knime Analytics Platform