Jacob Lakies

San Francisco, United States • jacoblakiessoftware@gmail.com • +1-(231)-499-9364 • in/jacob-lakies/ • https://github.com/Starskii

SUMMARY

Results-driven Software Engineer with a strong grasp of programming fundamentals backed by a Bachelors of Science in Computer Science and two years of experience developing reliable, scalable and maintainable solutions to clients.

EXPERIENCE

Software Developer

Infosys • December 2021 - Present, Sunnyvale, CA

• Handled communication with the client in gathering natural language requirements and created sprint plans to achieve client goals.
• Led team in triaging bugs based on impact and priority.
• Used SQL, Python (Pandas) and Tableau to gather and analyze data to create actionable insights.
• Expanded and optimized the performance of a Natural Language Processing Model to support 4 additional languages.
• Automated the gathering and transformation (ETL) of data to expedite the process of training Natural Language Processing models which led to an overall reduction in time spent on repetitive tasks.
• Developed a release management tool to reduce time spent on project management and communications tasks which eliminated ~5 hours a week in menial labor for our project manager.
• Developed an ETL pipeline to gather relevant data from device diagnostics information (~60 transactions per second) from Kafka queues to store in a normalized relational database (Oracle) and aggregate to limit data transfer from reads. The aggregated data then powered business reports (Tableau) which helped the client detect anomalies and areas of improvement.
• Analyzed the functional performance of machine learning model to improve recall by the model from 84% to 88% in one category and from 92% to 94% in another.

PROJECTS

Hospital Acquired Anemia Prediction Model

Spectrum Health • September 2021 - December 2021

• Created a machine learning model in partnership with Spectrum Health in Grand Rapids, MI to create a model that could predict the risk of patients for developing Hospital Acquired Anemia.
• Using patient data from the MIT MIMIC-III database the model predicted the change in patient hemoglobin levels to an average of +- 3% accuracy.
• Created a data curation tool to extract pertinent data from the MIMIC-III database.

Developer Social Media

Grand Valley State University • https://github.com/Starskii/DevSocialMedia • December 2021 - December 2021

• Created a social media website with post/comment/like functionality, authorization/authentication and Github API integration.
• Created 28 backend API routes to create/read/update/delete content within the site.
• Designed 20+ components to be used on the frontend/client using MERN stack.

EDUCATION

Bachelor of Science in Computer Science

Grand Valley State University • Allendale, MI • 2022

Associate in Applied Science

Northwestern Michigan College • Traverse City, MI • 2018

SKILLS

Front End: Typescript, React, VueJs, HTML, CSS.
Backend: Java, Python, C#, Spark, Scala.
Data: SQL, MongoDB, Kafka.
Deployment: Linux, Kubernetes, AWS, Docker.
Data Visualization/Analysis: Pandas, Tableau, ApexCharts