(859) 638-3676
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# Gabriel Lahman

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## Skills

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|---|---|
| **Languages** | Python, SQL, R, C#, TypeScript, JavaScript, Caché/ GT.M, Java |
| **Libraries and Tools** | SQL Server, Postgres, Oracle SQL, SciPy stack, TensorFlow, Jupyter<br>React, .NET, Anaconda, dplyr, ggplot, Docker, Git, SVN |

## Technical Experience

**Epic Systems Corporation** **JUL 2020 — Present**
*Software Engineer, Data Science* *Madison, WI*

- Work to bring expanded predictive analytics/automation capabilities for Epic's revenue and patient access apps, with customers accounting for 41% of US hospital beds
- Developed regression, tree-based (primarily ensemble methods), naïve Bayes, and clustering models for insurance claim denial follow-up and patient bill payment behavior using scikit-learn
- Wrote SQL queries (SQL Server, Oracle) for customer data extraction, undertook EDA and targeted analyses in Jupyter Notebooks. Presented findings to leadership
- Created and maintained all aspects of activities used by hospitals for management, testing, and analysis of insurance contracts, including TypeScript based React frontends and associated C#/Caché back-ends.
- Contributed to other assorted app development and bug fixes using C#, TypeScript/JavaScript, and Caché, primarily in the insurance domain.

**The Aerospace Corporation** **MAY 2019 — AUG 2019**
*Data Science Intern* *El Segundo, CA*

- Implemented an automated and parallelized data pipeline for web-based GNSS data using python and InfluxDB
- Utilized the GNSS pipeline to perform signal availability analysis and forecasting of the Galileo GNSS in both python and R
- Designed a portable framework for anomaly detection algorithm bench-marking with Docker and Jupyter Notebooks to be used with Falcon 9 booster data in InfluxDB

**Indiana University** **AUG 2019 — MAY 2020**
*Undergraduate Teaching Assistant for Introduction to Artificial Intelligence* *Bloomington, IN*

- Topics covered by class were: search algorithms, heuristics, gameplay, decision trees, k-NN, logic, knowledge representation, and perceptrons/neural networks
- Duties included assisting students with in-class work, hosting office hours, creating course materials, and grading of both written and python assignments

**Cooperative Systems Lab, UC Irvine** **JUN 2018 — AUG 2018**
*Research Intern* *Irvine, CA*

- Worked to improve the accuracy of a Bayesian system for indoor target localization using RFID as part of the NSF REU program
- Developed a proof-of-concept for the system with Arduino, C++, and python
- Presented proof-of-concept and results at the USC Institute for Creative Technologies

## Education

**Indiana University** **May 2020**
*Bachelor of Science in Computer Science w/ Distinction* *Bloomington, IN*
*Minors: Mathematics, Statistics*
*Relevant Coursework:* *Applied Linear Models, Artificial Intelligence, Data Modeling and Inference, Machine Learning, Statistical Analysis, Numerical Methods, Probability Theory, Database Concepts, Biostatistics*