

# Luke Smith

Austin, TX 78751

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## SUMMARY

Data and information systems professional with proven background in large-scale IT project and data management and strong programming skills in SQL, Python, Java, and JavaScript. Qualifications include identifying and implementing data-oriented goals across organizations, quickly understanding complex relational databases, and problem-solving with efficient data-driven solutions. Certifications in data analytics and visualization and specialization in supervised and unsupervised machine learning. Driven to find an opportunity to create meaningful impacts where continued learning and career development are emphasized.

## SKILLS

**Languages:** Python, SQL, R, JavaScript, HTML/CSS, Java, JSON, C#, VBA, Regex, XML

**Tools & Libraries:** Pandas, NumPy, SciPy, Seaborn, Matplotlib, Scikit Learn, Excel, Macros, TensorFlow, Keras, Flask, PySpark, SQLAlchemy, Leaflet, Web Scraping, Flask, NLP, NoSQL

**Applications:** GitHub, PostgreSQL, MongoDB, GIT, Tableau, MVC, Looker, SFTP, Microsoft Office

## PROFESSIONAL EXPERIENCE

### Implementation Manager

October 2020 – March 2023

#### Iodine Software

Austin, TX

- Led over 30 technical projects working closely with hospital IT departments to implement Iodine's suite of machine learning products over a 6 - 14 week timeline
- Responsible for integration of millions of client data points including labs and vitals, medication, and provider documentation via the creation of a secure VPN, HL7 interfaces, and SFTP sites
- Performed in-depth data analysis, validation, and mapping efforts across client data, creating advanced SQL queries to ensure complete and successful data integration
- Enhanced medical documentation ML models by interpreting NLP engine outputs and identifying missed concepts with SQL queries utilizing regex
- Determined drivers of confidence outputs for medical evidence ML models by identifying model feature weights and cross-referencing case feature inputs
- Built and supported client-facing dashboards in Looker through interpretation of underlying SQL scripts
- Embedded and tested client single sign-on technology, such as SAML and LDAP, within application
- Mentored new Implementation Managers during and beyond project shadowing process
- Served as Level Two escalation resource for Client Success Analysts working directly with end users

### Client Success Analyst

July 2019 – October 2020

#### Iodine Software

Austin, TX

- Triage and solved 20 to 50 technical issues reported by users per week through an in-depth understanding of Iodine application, code base, data structure, and lifecycle
- Participated in weekly data science model investigation meetings, reviewing inputs and interpreting machine learning outputs for over 50 models.
- Implemented machine learning model improvements by redesigning model escalation process to emphasize understanding, investigating, and translating client concerns to Data Science leadership
- Analyzed medical records and generated reports using SQL to support non-technical account managers
- Built and tested 20 to 30 custom indicators based on medical events using Java and XML, such as the presence of COVID-19

## PROJECTS

### Personal Website | [lucasjfsmith.github.io/personal-website](https://lucasjfsmith.github.io/personal-website)

- Static website built with HTML, CSS, and Bootstrap featuring downloadable resume and links to personal projects seen below

### Produce Cost Analysis | [github.com/lucasjfsmith/agro-expo](https://github.com/lucasjfsmith/agro-expo)

- Jupyter notebook using pandas, Matplotlib, Seaborn and Scipy to explore and analyze 20 years of produce farm prices as well as retail prices from Atlanta, Chicago, Los Angeles, and New York City.

### Pro Venue Tracker | [pro-venue-tracker.onrender.com](https://pro-venue-tracker.onrender.com) | [github.com/lucasjfsmith/pro-venue-tracker](https://github.com/lucasjfsmith/pro-venue-tracker)

- Cloud-based Flask app utilizing PostgreSQL, SQL Alchemy, Pandas, Leaflet.js interactive map to displays each professional sports team, venue, and next event across the MLB, NFL, NBA, NHL, and MLS
- Allows users to dynamically display leagues of their choosing and view venue and event information by clicking icons displayed on the coordinates of each venue
- Venue coordinates gathered from Kaggle.com, schedule information web-scraped from sports-reference.com, and additional information pulled from Geoapify API

## ADDITIONAL EXPERIENCE

### Assistant Program Director Lair of the Bear

March 2018 – August 2018  
Pinecrest, CA

- Managed a staff of 30, coordinating food, maintenance, entertainment, and recreation operations in remote wilderness environment
- Responsible for customer satisfaction, fielding and prioritizing issues and resources, determining possible solutions, and relaying all resolutions directly to customers

## COMMUNITY ENGAGEMENT

### Explore Austin Sub-Mentor

2022 – Present  
Austin, TX

- Available as a substitute mentor for outdoor activities with Austin youth

### BORP Adaptive Sports Revolution Fundraiser

2020 – Present  
Berkeley, CA

- Annual bike ride fundraiser raising money for people with disabilities in the Bay Area

## EDUCATION

### Coursera

#### Machine Learning Specialization

July 2023 – Present

- Supervised Machine Learning: Regression and Classification; Advance Learning Algorithms; Unsupervised Learning, Recommenders, Reinforcement Learning taught by Professor Andrew Ng of Stanford University
- Courses emphasize understanding of math and concepts underlying common algorithms like regression, clustering, decision trees, and neural networks

### University of Texas at Austin

#### Certificate in Data Analytics and Visualization

March 2023 – August 2023

- Six month intensive program focused on gaining technical programming skills in VBA, Python, JavaScript, SQL Databases, Tableau, Spark, and Machine Learning.

### University of Texas at Austin

#### BBA in Management Information Systems

2015 – 2019