

Victor Baker

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Portfolio: victorbaker.dev | LinkedIn: [linkedin.com/in/baker-v](https://www.linkedin.com/in/baker-v) | GitHub: github.com/bakerv

Passionate about solving problems and implementing solutions, and excited by opportunities to learn and improve. Experienced with conveying technical information to all levels, influencing decisions, and building relationships. Strong background in vector calculus, differential equations, and linear algebra.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, NoSQL, Excel VBA, MATLAB, Java, C#

Technologies: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Tableau, MongoDB, MySQL, PostgreSQL, HTML, CSS, Leaflet.js, Plotly.js, D3.js, OpenCV, Aiorc, Flask, Jupyter Notebooks

PROJECTS

Facial Emotion Recognition | github.com/bakerv/fer-webcam

This app receives a video stream from the user's browser, and returns an emotion prediction. Haar Cascades are used for face detection and a Convolutional Neural Network for emotion prediction.

- Role: Team Lead
- **Tools Used:** Python, JavaScript, TensorFlow, OpenCV, WebRTC, Aiorc, Aiohttp and others

Citi Bike Data Pipeline | github.com/bakerv/citibike-data-extraction-2013-2021

Extracting monthly trip data from AWS S3 buckets, and loading it into a SQL Database. The 112 million trips are aggregated to create a Tableau dashboard on bicycle longevity.

- **Role:** Sole author
- **Tools Used:** Python, SQL, Tableau, Pandas, SQLAlchemy, Python IO, ZipFile, AWS

Shark Sighting API | github.com/bakerv/sharks-western-australia

GeoJSON data from the Government of Western Australia's API is used in an interactive map. The raw data from the API is cleaned, and added to a leaflet map as a custom icon for each shark species or ship.

- **Role:** Team Member
- **Tools Used:** Python, JavaScript, SQL, HTML/CSS, Pandas, Leaflet.js, D3.js and others

WORK EXPERIENCE

Horticulturist

June 2019 – August 2021

Private Estate

San Antonio, TX

Responsible for the care and administration of the primary garden on property. Coordinated with owners and designers to realize the goals for the space.

- Created visual tools to facilitate communication of technical information
- Accurately performed analysis and problem solving for critical systems
- Successfully translated complex designs to precise physical layouts

Assistant Greengoods Manager / Perennial Department Head

January 2014 – May 2019

Rainbow Gardens #3

San Antonio, TX

Oversaw the upkeep of all nursery stock and plant displays. Managed the pesticide application program, safety program, irrigation systems, and fertilizer injectors.

- Effectively monitored sales patterns, and adapted procurement strategy to maximize profits
- Independently analyzed existing processes and developed procedures to increase productivity
- Outstanding customer reviews while functioning as the customer service lead

Undergraduate Research Assistant – Data Visualization

Jan 2010 – June 2010

The University of Texas at San Antonio

San Antonio, TX

Functioned as the systems administrator while completing research for the McNair Scholar's program.

Advisor: Kay Robbins, Ph.D.

- Developed tools with MATLAB to measure synchronization in nonlinear systems.
- Visualized neurological EEG data from human subjects.

EDUCATION

Certificate, Data Analytics

2021

The University of Texas at San Antonio

San Antonio, TX

Bachelor of Science, Physics

2016

The University of Texas at San Antonio

San Antonio, TX