# JARED KEIL

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## SKILLS

Python, SQL, C++, Unix, Javascript, Selenium, Software Testing, AWS, Azure, Data Augmentation/Creation, ETL, Analysis, Visualization, Docker, Git, Agile, Spark, Jupyter, Machine Learning, A/B Testing

## PROJECTS

**SOURCING SOUND - Sound Classification with Convolutional NN**          [github](#) | [webapp](#)
- Built a neural network with Python/Tensorflow, which successfully exceeded benchmark performance metrics.
- **Constructed pipeline** for unstructured audio data, implementing **feature extraction and storage** with Librosa library and AWS S3. Visualized model performance with TensorBoard; presented results and live demo.
- Bundled model and audio preprocessing into a Flask/Javascript webapp, and deployed over AWS EC2.

**WIKI-VIDEO GENERATOR - Making Wikipedia More Accessible (110 Data)**          [github](#) | [videos](#)
- Developed an **automated Python script** to transform top-25 most popular Wikipedia articles per week into YouTube videos, using modern voice-generation techniques, APIs, and web-scraping.
- Script wrangles data from Wikipedia API, parses text in Python, searches and downloads related images with Selenium, converts text to speech using a GAN, generates video, and automatically uploads on YouTube API.

**NCAA MARCH MADNESS DASHBOARD - Predicting Winners (110 Data)**          [github](#) | [dashboard](#)
- Designed an **interactive Tableau dashboard** to display key team statistics and provide matchup predictions.
- Performed web-scraping with BeautifulSoup to auto-populate fields with school's color hex codes and logos.

**WHO GETS HELP? - Mental Health Services in the U.S.**          [github](#)
- Cleaned and **analyzed messy data** from nationwide mental health facilities, using NumPy, Pandas, Sci-kit Learn, and Matplotlib, in order to estimate the significance of differences in services provided to at-risk demographics.
- **Presented key findings** and recommendations to fellows and instructors at Galvanize Data Science Immersive.

## EXPERIENCE

**110 DATA, LLC – Remote (HQ in Kansas City, MO)**
*Python Developer / Data Scientist*                                        *March 2020 – Present*
- Manufacturing data science consultant for Hausman Metal Works, Inc.
  - Build data pipeline and machine learning models to ingest data and output directions.
  - Python software controls manufacturing parameters to best optimize physical machines.
  - REST API deployed on AWS provides instructions to Clario's equipment.
- API & Automated Bot Development for Amazon Affiliate Valley Holdings, LLC.
  - Custom Python software enables automated inventory management for boutique websites.
  - Use web bots, restful APIs to integrate online shops that lack formal APIs with inventory systems.
  - Saving Valley Holdings LLC 50+ hours per week in wages via a new automated system.
  - Software operates on AWS EC2 Linux infrastructure.

**BERKSHIRE HATHAWAY HOMESTATE CO. - San Francisco, CA**
*First Report Specialist*                                        *March 2019 – November 2019*
- Worked with a team on upgrading claim stage. Improved processing efficiency, saved $14K in operational costs.
- Maintained excellent communication with the insurance underwriting and legal teams.

**MUSIC REPORTS – Woodland Hills, CA**
*Research Assistant*                                        *August 2016 – March 2019*
- Collaborated on testing SAAS music-royalties product for television networks, saving $1.6M/year for our clients.
- Supported data quality control, cleaned data for over 60 monthly clients to ensure compliance with royalty law.

## EDUCATION

**GALVANIZE DATA SCIENCE IMMERSIVE – San Francisco,CA**                    *March 2020*
700+ hour, hands-on training program covering core data science areas and skills, including probability and statistics, data engineering, databases, machine learning algorithms, and data visualization.

**UNIVERSITY OF CALIFORNIA, LOS ANGELES – Los Angeles, CA**                *June 2015*
Bachelor of Arts, Ethnomusicology

## ADDITIONAL

**GLOBAL NOMINEE AWARD, NASA SPACE APPS 2020 - Fire Detection For School Evacuations**          [github](#)