

# Todd Gonzalez

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## Skills

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**Data Science:** Data Wrangling, Machine Learning, Computer Vision, Predictive Modeling, Natural Language Processing, Data Visualizations

**Models:** Linear, Polynomial, and Logistic Regression, Decision Trees, Random Forests, Gradient Descent, Gradient Boosting, Convolutional and Recurrent Neural Networks, LSTM

**Data Engineering:** API Deployment and Integration, SQL and Databases, Productization and Cloud, Web Scraping

**Computer Science:** OOP, Data Structures, Algorithms, Hashtables, Graphs, Computer Architecture, Unit Testing

**Tech Stack:** Python, C++, Pandas, Flask, TensorFlow, Google Cloud Vision OCR, SQLite, PostgreSQL, Amazon Web Services, PyPlot, Seaborn, Matplotlib

## Projects

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### MyDish

VERSION-CONTROL COOKING APP BUILT IN REACT NATIVE WHICH ALLOWS USERS TO QUICKLY MAKE AND SEE CHANGES TO THEIR RECIPE.

[Link](#)  
Feb - April 2020

- Built an Image Parsing API in Python using Google Vision OCR capable of extracting full cookbook recipes from a photo.
- Enhanced API with RegEx and NLP models to retrieve, clean, and send appropriate recipe data to the front end.
- Deployed API to AWS SageMaker with complete endpoints for live app integration.

### PicMetric

FLASK WEBAPP BUILT IN **PYTHON** WHICH DISPLAYS CATEGORICAL INFORMATION ON THE USER'S UPLOADED PHOTO USING A NEURAL NETWORK TRAINED ON 24,000 IMAGES.

[Link](#)  
November 2019

- Pickled a pre-trained Resnet50 Convolutional Neural Network specializing in object detection
- Deployed model using Flask with API with endpoints interfacing between the front-end, the model, and the PostgreSQL database.
- Deployed Flask API on Heroku for full webapp functionality and autonomy.

### Conway's Game of Life

A RULE BASED, TURING COMPLETE, CELLULAR AUTOMATON DESIGNED WITH A MIX OF OOP AND FUNCTIONAL PARADIGMS IN **PYTHON**.

[Link](#)  
March 2020

- Built a cell and board class with dual buffering event handlers to check the state of neighboring cells.
- Built a GUI for the user to pause, resume, and clear the board. The user can also select from popular Game of Life preset layouts.

## Work Experience

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### Lambda School

San Francisco, CA

TEAM LEAD - DATA SCIENCE

Oct 2019 - May 2020

- Performed extensive daily code reviews and quality assurance, ensuring full functionality and completion of team's projects.
- Conducted daily meetings with individual team members for general code assessment and feedback reports.
- Directed daily team stand-up meetings for end of day progress briefings to enforce Agile development practices on students.

### Greentique Hotels

Manuel Antonio,  
Costa Rica

DIGITAL MARKETING SUPERVISOR

Aug - Dec 2018

- Aggregated and cleaned hotel chain's business data to produce viable leads for sales team
- Studied hotel chain's performance to adapt marketing strategies to best fit seasonal target audiences
- Built hotel chain's online presence based on data driven decision-making to improve and maintain traffic engagement

## Education

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### Lambda School

San Francisco, CA

DATA SCIENCE

Aug 2019 - July 2020

### DeAnza College

AS IN COMPUTER SCIENCE

Cupertino, CA

Aug 2016 - Dec 2017