**Skills**

**Software Development:** Python, C/C++, C#, HTML/CSS, Javascript, SQL, Spark, Bash, Git, Airflow

**Data Science:** Pandas, Numpy, Sklearn, SciPy, Caffe, Statsmodels, Jupyter, Matplotlib

**Experience**

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| Invenst Labs | *Data Scientist/Software Engineer* | May 2019 – Present |

* Collaborated with engineer to redesign freelancing platform into a service-oriented architecture for greater maintainability and scalability.

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| Traction Tools | *Machine Learning Engineer* | Aug 2019 – Oct 2019 |

* Used machine learning techniques to perform customer churn analysis in order to recommend customer retention methods to analytics team.

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| Tesla | *Data Analytics Engineer* | June 2017 – Jan 2019 |

* Developed ETL process to capture, track, and store solar panel component shipments, saving Tesla $336,000 a year in operational costs.
* Reduced runtime of machine learning algorithms that identify electrical issues in solar systems by 86%.
* Crafted and maintained SQL and Spark queries for performance analyses of solar and battery products.
* Generated reports based on upper management request using SQL and Microsoft tools.
* Collaborated with energy analyst to develop data processing process to validate battery cell retention models of Tesla’s 100,000+ battery fleet.
* Developed python scripts to automate routine tasks and analyses carried out by Operations and Maintenance analysts, saving 5-10 hours a week.

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| Fitly | *Data Scientist* | Oct 2016 – Mar 2017 |

* Saved over $150K in crowd sourcing costs by creating a system that uses deep learning to clean thousands of images for model training. Resulted in a 10% boost in accuracy of food recognition model.
* Developed crowd sourced data management tools to facilitate the annotation of internal image dataset.
* Developed python web scrapers to extract food images from search engines.
* Developed a nearest-neighbor based user behavior model to reduce false positive image classifications.

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| Lockheed Martin | *Software Engineer* | Jul 2012 – Oct 2016 |

* Enhanced the portability and testability of the F-35 Targeting System used by 11+ countries onto multiple hardware and software platforms by creating an operating system abstraction layer.
* Solved critical failures discovered in production by analyzing sensor data.
* Helped engineers troubleshoot failures encountered during flight tests by creating tools to ingest and transform aircraft data into formats consumable for analysis.

**Education**

**B.S. Computer Science** | Florida Institute of Technology, 2012

**Data Science Immersive** | Galvanize San Francisco, 2016