Seth Brunwasser

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http://sethbrunwasser.github.io Github.com/sethbrunwasser in LinkedIn.com/in/sethbrunwasser

EDUCATION

Arizona State University

Expected May 2020

Bachelor of Science in Computer Science

GPA: 3.4/4.0

Relevant Coursework: Intro to Machine Learning, Probability & Statistics, Applied Linear Algebra Roger L. Von Amelunxen Scholar

EXPERIENCE

Intel Chandler, AZ

Autonomous Driving Applications Intern · Autonomous Driving Group

May 2019 - Aug 2019

- Used Tensorflow and Caffe to implement perception models on Intel Architecture for benchmarking
- Developed real-time applications for an autonomous software stack in C++
- Wrote Bash scripts to automate benchmarking of model performance

Starbucks Scottsdale, AZ

Data Science Intern · BI & Data Science Team

Aug 2018 - Dec 2018

- Built an application with Flask and PostgreSQL to predict a customer's usual order
- Performed exploratory data analysis and model development in Jupyter Notebook
- Assisted with front-end development by integrating multiple API calls using *React.js*

Ford Motor Company

Dearborn, MI May 2018 - Aug 2018

Research Intern · Autonomous Vehicles & Controls - Developed robust signal handling in C++ for ADAS Applications on an onboard ECU

- Created a Proof of Concept and submitted design disclosure for a new ADAS feature
- Built a tool in *Python* to help the simulation team parse corrupted data

Avnet

Phoenix, AZ

Machine Learning Intern · Business Migration Team

May 2017 - Sept 2017

- Used Levenshtein Distance and other string comparison functions in Python to find similarities in customer and part number data across multiple datasets to be used as features
- Built a predictive model using boosted decision trees to detect business migration with 98% accuracy
- Proposed said model which reduces the number of staff working on this task from 14 to 1, saving an estimated \$500,000 in labor cost

PROJECTS

∘ PrivaCV 🖵 Python, OpenCV, SQLite

A security application that turns off the computer display when an unauthorized user is in view

- Conducted semi-supervised learning using LBPH feature vector to dynamically update model with live face data
- Used Flask to stream detected faces to the browser for improved efficiency

Twitter Stock Research Q

Python, NumPy, Pandas

Research to determine if sentiment analysis on social media is a viable trading strategy

- Used Twitter API to query publicly traded companies for sentiment analysis on tweets
- Performed Pearson Correlation on tweet sentiment with change in stock price

• Amazon Alexa Mortal Kombat Q

Python, Flask, AWS

Created a turn-based, fighter game using Amazon Alexa voice commands at Southwest Hacks

- Used Flask-Ask to create commands and responses in a team-oriented environment
- Built and hosted Alexa Skill on Amazon Web Services

Skills

Languages:	Python	C++	JavaScript	Java	SQL	Bash	HTML	CSS
Libraries:	Tensorflow	Caffe	OpenCV	Pandas	NumPy	Scikit-Learn	Matplotlib	
Tools:	Linux	Jupyter	${\bf Postgre SQL}$	SQLite	Git			

Extracurricular

- E2 Camp Counselor: Mentored incoming freshman on strategies for succeeding in engineering in addition to engaging campers in communication, team building, and engineering practices.
- Software Developer Association, Member: Attended SoDA meetings, networked with attendees, and learned about the latest technologies with industry leaders.