

Seth Brunwasser

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EDUCATION

Arizona State University

Bachelor of Science in Computer Science

Relevant Coursework: Intro to Machine Learning, Probability & Statistics, Applied Linear Algebra

Roger L. Von Amelnunxen Scholar

Expected May 2020

GPA: 3.5/4.0

EXPERIENCE

Starbucks

Data Science Intern | BI & Data Science Team

- 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*

Scottsdale, AZ

Aug 2018 - Dec 2018

Ford Motor Company

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

Dearborn, MI

May 2018 - Aug 2018

Avnet

Machine Learning Intern | Business Migration Team

- 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

Phoenix, AZ

May 2017 - Sept 2017

Arizona State University

Student Research Assistant | Office of Evaluation & Educational Effectiveness

- Conducted data collection for business analysts to report on
- Cleaned and standardized confidential student and alumni data
- Communicated with students daily and held accountability for students privacy

Tempe, AZ

Jan 2017 - May 2017

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 📊

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 🥋

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	HTML	CSS
Tools:	Pandas	NumPy	Scikit-Learn	Jupyter Notebook	OpenCV	Matplotlib	Fuzzywuzzy

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.