Seth Brunwasser

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Education

- **Arizona State University** — May 2020
  Bachelor of Science in Computer Science — *GPA: 3.5/4.0*

Experience

- **Amazon** — **Seattle, WA**
  Software Development Engineer · Dynamic Configuration Team — *Oct 2020 - Present*
  - Added query pagination for *Java* clients resulting in less cache misses and cache invalidation
  - Implemented a background sync thread to organize data across resources
  - Communicated across multiple teams to meet project goals
- **Intel Corporation** — **Chandler, AZ**
  Software Engineer 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**
  Research Intern · Autonomous Vehicles & Controls — *May 2018 - Aug 2018*
  - 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

- **NASA Capstone** — *Python, Scikit-learn, Seaborn*
  Research to create a model that predicts thrust of Hall Thrusters
  - Trained a regression model to achieve a score of 97.4%
- **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
- **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
- **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

Skills

Languages:	Python	Java	C++	Javascript	Bash
Tools:	Linux	Jupyter	PostgreSQL	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.
- **Awards**: SoDA Code Challenge VI, Roger Von Amelunxen Scholar, Cum Laude