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*
- Delivered various projects for a distributed edge-cache backing over 4,000 services in Amazon
- Proposed architecture redesign to minimize heap usage by offloading old records to a historical fleet
- 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