Ashton Sobeck

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Education

M.S. Computer Science

2022

Clemson University

GPA: 3.75

B.S. Computer Science

2018 - 2021

Clemson University

GPA: 3.90

Skills

Languages and Frameworks: Dart, Java, ReactJS, Remix, TypeScript, YAML, C/C++

Technologies and Idealogies: AWS, AGILE, Git, Infrastructure as Code

Projects

Can PCA Reduce Dataset Size While Keeping Great CNN Performance?

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- We wanted to see if applying PCA to the CIFAR10 dataset as an input to a CNN would produce satisfactory results while keeping the dataset size low
- We used **Python** and **Keras** to create, train, and visualize the results from our models.
- We found that compressing 81.25% (6 of 32 principal components) of the data resulted in on par or just below image clasification performance of using the full dataset.

Melbourne Pedestrian Density



- Utilizing deck.gl and d3.js, we visualized the pedestrian density of Melbourne, Australia to show the busiest areas of the city at different times of the day.
- We gave the user the option to compare different streets of Melbourne in which a comparative chart graphic would populate on the user's screen.

Sobeck.dev

Created using the Remix framework, this hosts my portfolio and other projects I have.

Experience

Intern - Software Engineer

Jan 2022 - Present

Workiva

- Created a robust performance testing framework that enhanced knowledge of changes to the system's performance.
- Took on frontend and backend stories to increase my knowledge of the product.

Cloud Intern

May 2020 - December 2021

Clemson CCIT

- Utilized AWS CloudFormation, Lambda and scripts to help support the Atlassian suite to maximize availability and minimize costs.
- Switched QA environment to Spot Instances resulting in 25% monthly costs savings.

DevOps Intern

June 2021 - August 2021

Infor

- Automated manual processes resulting in a time reduction of 70%.
- Replicated existing architecture into CloudFormation templates.

Full Stack Developer Intern

May 2020 - October 2020

NIWC PAC

- Learned fundamental principles of frontend, backend, and API development.
- Engaged in pair programming and other AGILE practices.