

## Education

<b>M.S. Computer Science</b> <i>Clemson University</i>	<b>2022</b> GPA: 3.75
<b>B.S. Computer Science</b> <i>Clemson University</i>	<b>2018 - 2021</b> GPA: 3.90

## Skills

**Languages and Frameworks:** Dart, Java, ReactJS, Remix, TypeScript, YAML, Python, C/C++  
**Technologies and Ideologies:** AWS, AGILE, Git, Infrastructure as Code

## Projects

### Can PCA Reduce Dataset Size While Keeping Great CNN Performance?

- 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 classification 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 and led to a large increase in performance for our customers.
- Took on frontend and backend stories to increase my knowledge of the product and provide our customers with an even better experience.

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### 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.