# Nicholas Gustafson

nichgus7@gmail.com | (803) 315-7023
nicholasgustafson.com

## Relevant Experience

### Applications Engineer @ Medidata Solutions
Jun - Aug 2020 // New York, NY // Remote

- Implemented several major data visualization techniques so the clients can view and interact with their data with ease on smaller viewing windows.
- Scalable contributions were made so the team could easily distribute these changes to other areas in the app.
- Created a database view for other teams to integrate with.

### Full Stack Developer @ BMW Group
May - Aug 2019 // Greenville, SC

- Implemented several major features for My Car Is Born in personal portal using React and Redux, then migrated to Apollo.
- Supported the BMW and MINI brands within the same My Car Is Born repository using a custom webpack config in order to maximize code reusability.
- Migrated from a RESTful microservice architecture to a single endpoint using Apollo Server and Express.
- Refined the frontend to be as performant as possible using best practices like code splitting, lazy loading, prefetching, and implementing a PWA using a Workbox service worker.

### Cloud Architect @ BMW Group
Jan - May 2019 // Greenville, SC

- Composed 2 Kubernetes manifests for secure, production ready, MariaDB deployments. One manifest is for the highly available Galera cluster and the other is for the Master-Slave cluster, both take advantage of MariaDB MaxScale
- Explored AWS Lambda functions and Kubeless functions for a microservice replacement. Developed a lambda function to keep cross account target groups updated in AWS so our Kubernetes cluster's nodes would stay highly available.
- Developed Splunk Analytics algorithms to demonstrate user activity and feature effectiveness.
- Accommodated infrastructure support for 4 major web applications. Each project has several microservices and in continuous development with the agile working model.

### Software Developer @ BMW Group
May - Aug 2018 // Greenville, SC

- Lead a group of people to test and develop end-to-end automated testing scripts for 3 complex web applications.
- Crafted new standards for developing end-to-end automated tests and implemented them for major BMW applications.

Aug - Dec 2017 // Greenville, SC

- Implemented part of My Car Is Born, a major feature in the BMW Connected app.
- Created the first JavaScript end-to-end testing suites and restructured how the testing team works with the developers.

### Full Stack Developer @ Clemson University
Feb 2020 - Present // Clemson, SC

- Designing and implementing Clemson University's Vocal Arts new website.
- Created using GatsbyJS and Netlify CMS to allow the admins an easy access to edit content and make the website incredibly performant.

Jan 2017 - Present // Clemson, SC

- Designed and developed a completely new website for Clemson University Tiger Band, Clemson University Drumline, and the Clemson University Tiger Band Association.
- The Tiger Band Media Team has given multiple talks and presentations to other bands and at conferences about the website.

## Education

### Clemson University
May 2021 // Clemson, SC

Bachelor of Science in Computer Science
Minor in Business Administration
GPA: 3.89/4.00

## Skills

### Programming Languages

JavaScript, TypeScript, YAML, HTML/CSS, SASS, Ruby, Python, Swift, C, C++, SQL, NoSQL

### Frameworks / Libraries

React, Redux, Apollo, GraphQL, Gatsby, Express.js, HAML, Rails, Three.js, WebGL, Node.js, Protractor, Appium, Jest, MariaDB, MongoDB

### Tools

Adobe Xd, Kubernetes, Git, Docker, Bash, Postman, AWS, Unity, Gulp, Netlify

## Achievements

### Eagle Scout @ BSA
Jun 2015

### Published Author @ CHI
Jan 2020

### National Finalist @ TSA (Technology Students Association)
Summer 2016

### Trumpet Section Leader @ Clemson University Tiger Band
Fall 2018, 2019, and 2020

### Assist. Site Leader @ Salkehatchie Summer Service
Summer 2017, 2018, and 2019

## Notable Classes

### Design Analysis of Algorithms and Data Structures
Spring 2018

### Mobile Development
Fall 2019

## Projects

### Camp Registration @ BSA
2015 - 2016

### Personal Website
Summer 2018

### Tiger Band Music App