

# Russell Hart

I am a web developer that is driven to create responsive web applications that meet customer needs. I enjoy learning new technologies and creating readable and efficient code.

My technical skills are supplemented by my engineering and mathematics degrees and by my experience teaching engineering fundamentals to high school students. I also have extensive customer service experience from guiding with Nantahala Outdoor Center for many years.



in  [Portfolio](#)

Full Stack Web Developer  
Mountain Rest, SC  
[russellbot@gmail.com](mailto:russellbot@gmail.com)

## Work Experience

### Web Developer, 2020 - present

Uses code to build complex large applications. Improves performance of web applications using code splitting, caching, load balancing, and more. Self taught web developer.  
Projects include:

#### Ez-Shop E-commerce Mobile App

Full stack MERN project. The front end of this online store was built with the React-Native framework along with Redux for state management. The React Context API was used to manage authorization tokens and admin access. The back end was built using Node, Express, MongoDB, and Mongoose. Simple JWT were used for authentication. Users with Administrator access have full CRUD functionality through the app.

#### Full Stack Smart-Face App

An image recognition app using the Clarifai API to detect faces on an uploaded picture. Log in to track progress in the app and to update your personal profile. This project was built using React, Express, Node, and PostgreSQL. Session management was implemented with JWT and Redis. Docker was implemented on the back end to streamline development.

#### NASA Pictures Front End App

A web app that displays ten random pictures from NASA's API. A search bar will filter through the loaded images and highlight any matching text. Pictures may be saved in a favorites page. This project was built using React and Redux.

### Nantahala Outdoor Center, Head Guide, Apr 2004 - Present

Guided whitewater rafts and led oral discussions of natural and historical features on the Chattooga River, a National Wild and Scenic River. As head guide, responsible for training all newly hired guides to navigate the river and interact with guests.

### Spring Valley High School, Pre-Engineering Teacher, Jul 2012 - Jul 2013

Taught Pre-Engineering classes as part of the Project Lead the Way curriculum. Developed lessons for Introduction to Engineering, Pre - Engineering, and Digital Electronics classes for students in grades 9-12.  
Sponsored and mentored the school's VEX robotics team.

## Education

University of South Carolina, Master of Arts in Teaching Mathematics, 2011 - 2012

Clemson University, BS Biological/Biosystems Engineering, 2003 - 2007

## Technical Skills

**Programming language:** JavaScript, HTML5, CSS3, TypeScript

**Frameworks:** React, Redux, React-Native, Node.js, Express.js

**Database:** MongoDB, PostgreSQL, Redis

**Work environment:** Git

**Cloud service:** AWS Lambda

**Development Platform:** Docker, CircleCI