Russell Hart

I am a full stack 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.

Full Stack Web Developer
Mountain Rest, SC
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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:

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 porject was built using React and Redux.

MS Paint Clone
A webpage that mimics the basic functions of the Microsoft Paint program. Files can be saved and loaded from localStorage. This project was built using Javascript and advanced HTML Canvas.

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, Node.js, Express.js
Database: PostgreSQL, Redis
Framework: React + Redux
Work environment: Git
Cloud service: AWS Lambda
Developement Platform: Docker, CircleCI