

Jared McCarver

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Experience

STEWART ENGINEERS

WAKE FOREST, NC

PROJECT ENGINEER

MAY 2021 -

Primary responsibility: Developing web app using React JS and Next JS that will work to automate a Chemical Vapor Deposition system. Helped teach an intern React JS through this project as we collaborated with Git and Eclipse.

Other Responsibilities: Managed Stewart's website written in PHP, Organized instrumentation for a glass factory, worked on project procurement, used online computational fluid dynamics software to model molten glass flow, organized shipping of CVD system from Kazakhstan to Norfolk, Virginia.

ENGINEERING INTERN

OCTOBER 2019 – MAY 2021

Primary responsibility: Developed a spectrophotometer app to be used in glass coatings production that takes in values for thickness and indices of refraction and returns hunter LAB and RGB color values. The program is written in C++.

Education

NC STATE UNIVERSITY

MAY 2021

B.S. in Computer Engineering and Electrical Engineering

GPA: 3.44

Projects

SENIOR DESIGN PROJECT

Worked with IBM on a telescope simulator. The project used simulated weather events and real world weather data to simulate telescopes. I built the GUI in React JS which communicated with a Java Rest Service (Received Telescope List) and Python Flask Service (Tiled the Telescopes). We then deployed the three code bases to work end-to-end in both docker containers and a kubernetes cluster.

PORTFOLIO SITE

I developed my own portfolio site in React and Next JS. You can find a list of other projects listed on my webpage alongside my github.

Programming Skills

Proficient: React, JavaScript, HTML, CSS, Python, Django, C#

Intermediate: C++, Verilog, Docker, Kubernetes, Git

Basic: PHP, Matlab, C, Rust