

Education

Raleigh, NC

North Carolina State
University

August 2017 | May 2021

- BS in Electrical and Computer Engineering. GPA: 3.44

Work Experience

Project Engineer

Stewart Engineers

May 2021 – Present

Wake Forest, NC

- Developing web app using Next JS, PostgreSQL, GraphQL, TypeOrm, Redis, and the Django Rest Framework that will automate a Chemical Vapor Deposition system.
- Helped teach an intern React JS through this project as we collaborated with Git and Eclipse.
- Created database for future glass coating customers using TypeOrm and PostgreSQL.
- Managed Stewart's website written in PHP.
- Other Responsibilities: 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.

Engineer Intern

Stewart Engineers

October 2019 – May 2021

Wake Forest, NC

- 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++. and uses the JUCE framework.

Projects

- **IBM Cognitive Telescope Network (Senior Design Project)** 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. Python, Java, ReactJS, MySQL, Docker, Kubernetes
- **Reddit Clone** (<https://github.com/jsmccarver/Reddit-Clone>) Full stack project that replicates forum format of Reddit. Developed new skills using Next JS/Server Side Rendering, GraphQL, PostgreSQL, and styling using Chakra. The program was deployed through Digital Ocean through Docker containers. Next Js, Node JS, PostgreSQL, GraphQL, Docker, Urql, Chakra
- **Portfolio** (<https://github.com/jsmccarver/Jared-Portfolio> — <https://jmccarver.com>) A portfolio website to showcase my design and development skills as a full-stack developer. Next JS, HTML5, CSS

Technical Skills

- Languages: JavaScript/HTML/CSS, Python, C++, GraphQL, PostgreSQL, Redis
- Frameworks: React JS, Next JS, Django
- Tools: Git, Linux, Docker, Kubernetes, AWS