

Michael Pavich

SOFTWARE ENGINEER

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Skills

Proficient JavaScript, React, Java, C#, ASP.NET core MVC, HTML, CSS/SCSS, MySQL/SQL, Git, Agile Methodologies, JUnit, Jest
Knowledgeable Cypress, Docker, Jenkins, AWS, Hadoop, Python, C++, React Native, HBase

Education

University of West Georgia

B.S. IN COMPUTER SCIENCE

- GPA: 3.51
- Dean's list 4 semesters
- President's list 2 semesters

Carrollton, Georgia

Expected Graduation: Dec. 2021

Experience

News Corp

SOFTWARE ENGINEER INTERN

New York, NY

June 2021 - Present

- Made a chrome extension to remove all cookies or cookies from a list stored in AWS utilizing the Chrome API, React, and Redux that is used by all editors on the global publishing platform to solve their cookie issues
- Implemented unit tests and snapshot tests using Jest to achieve 80% test coverage

Projects

Algorithm Visualizer

JAVASCRIPT, HTML, CSS

Carrollton, Georgia

Nov. 2020

- Built an interactive application using JavaScript, HTML, and CSS to visually understand how various algorithms work
- Implemented visualization of various sorting algorithms and path-finding algorithms to demonstrate how the algorithm works with various settings
- Created the visualization of maze generation or weight generation to observe how path-finding works in these conditions

Imagely - Algorithmic Art and Steganography

C#

Carrollton, Georgia

Dec. 2019

- Created an interactive image editing application using C# in UWP to demonstrate computer generative art
- Implemented image triangulation that replicates an image using triangles of different sizes and colors using delaunay triangulation and voronoi diagrams
- Utilizes edge detection to determine where the detail in an image is to decide where the points for a triangle should be positioned
- Implemented steganography to hide text or other images within an image using bit manipulation with the option for encryption
- Implemented circle packing and triangulation to pack shapes tightly in order to create abstract computer generated art

Weather App

JAVASCRIPT, REACT, HTML, CSS

Carrollton, Georgia

May 2021

- Made an interactive weather app using React that utilized a weather API to retrieve weather data and an image API to get image data based on the searched city

Office E-commerce Website

C#, ASP.NET CORE MVC, SQL, BOOTSTRAP

Carrollton, Georgia

April 2021

- Constructed a responsive e-commerce website for office products using a SQL database to store the products and users
- Made a full login and registration system to allow users to have an account
- Built an admin system to allow easy management of the website and products
- Created a cart system to be able to easily add items wanted for checkout
- Made a table for listing products that utilized pagination along with sorting and filtering to find specific products