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 *Carrollton, Georgia*

B.S. IN COMPUTER SCIENCE *Expected Graduation: Dec. 2021*

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

Experience

News Corp *New York, NY*

SOFTWARE ENGINEER INTERN *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 *Carrollton, Georgia*

JAVASCRIPT, HTML, CSS *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 *Carrollton, Georgia*

C# *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 Chrome Extension *Carrollton, Georgia*

JAVASCRIPT, REACT, HTML, CSS *September 2021*

- Created a chrome extension using ReactJS that utilized a weather API to retrieve real time weather data
- Made use of a geocoding API to reverse-geocode the current location to automatically pull weather information on the current area
- Used an AWS S3 Bucket to store OpenWeather's city data to allow auto-completion of searched cities
- Used the Chrome API to store the retrieved city data in local storage to reduce load times and database calls

Office E-commerce Website *Carrollton, Georgia*

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