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: December 2021*

- GPA: 3.51
- Dean's list 4 semesters
- President's list 2 semesters
- Data Structures & Discrete Math II
- Distributed & Cloud Computing
- Computing Capstone
- Intelligent Systems
- Program Construction II
- Advanced Web Development

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 remove problematic third party cookies
- Integrated **Google Analytics** into the chrome extension to track down which cookies are causing problems for the team to find bugs easier
- Increased test coverage to **80%** for the chrome extension by creating unit tests and snapshot tests using **Jest**

Projects

Algorithm Visualizer *Personal Project*

JavaScript, HTML, CSS - Github Website *November 2020*

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

Imagely - Algorithmic Art and Steganography *Personal Project*

C#, UWP - Github *December 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 *Personal Project*

JavaScript, React, Redux, HTML, CSS - Github Chrome Web Store *September 2021*

- Created a chrome extension using **React** and **Redux** 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 *Advanced Web Development*

C#, ASP.NET core MVC, SQL, bootstrap - Github *April 2021*

- Constructed a responsive e-commerce website with **C#** in **ASP.NET** 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