Jamie Giarratana

jamie.giarratana@gmail.com | Tampa, FL | (479) 249-2441

Education

Bachelor of Science in Computer Science, University of South Florida, Tampa, FL Expected May 2027
Major GPA: 3.7 \ 4.0; **USF GPA**: 3.6 \ 4.0

Key Specialized Courses: Program Design, Data Structures, Computational Linear Algebra

Skills

Languages: JavaScript, TypeScript, C, C++, Python, Java, HTML/CSS
Technologies: React, Angular, Node, Git, React Native, NextJS, MATLAB
Other: Linux, UNIX, Ubuntu, Android, iOS

Experience

Application Development Intern (*Summer*), J.B. Hunt, Lowell, AR June 2020 – August 2022 (3 summer terms)

- Implemented support ticket feature for in-house mobile app built in React Native reducing the time needed to submit a ticket by 50%; Focused on overall design, UI/UX, and connecting to ticketing API.
- Converted legacy web crawlers to simplified system allowing non-tech workers to maintain them. Utilized SQL, JavaScript, and XML.
- Collaborated with Senior Engineers to develop tools for universal navbar. Utilized dependency injection and test-driven development (TDD) in Angular.
- Developed soft skills and practiced Scrum and Kanban Agile frameworks.

Projects

Portfolio Website, Personal

- Built with React, NextJS, styled-components, TypeScript, etc. Hosted on Vercel.
- Hosted at jamjarr.com

Dijkstra's Algorithm, USF

- Implemented Dijkstra's Algorithm for an undirected graph in C++, without using key data structures from the STL library.
- Includes shortest path calculation and path backtracing

Fourier Series Path Tracer, Personal

- Converts a (faux) continuous signal, optionally in the form of an SVG file, to a discrete series of simple trig functions utilizing the Fourier Series. Then uses these functions to create a traced path.
- Built with PointJS, Express, and Node.

Honors and Awards

- 3rd Place, John Brown Hackathon sponsored by J.B. Hunt, Fayetteville, AR
- AP Scholar with Distinction
- USF Directors Award