

# John Sapp

Software Engineer

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## EDUCATION

### Valencia College

*Bachelor of Applied Science in Computer Technology and Software Development*

Orlando, FL

August 2025

### Valencia College

*Associate of Science in Robotics and Mechatronics*

Orlando, FL

April 2024

## CERTIFICATIONS & TECHNICAL SKILLS

**Certifications:** AWS Cloud Foundations, AWS Machine Learning Foundations

**Full Stack Tech:** Python, Java, JavaScript, SQL, HTML, CSS

**Development Practices:** Agile, Object Oriented Programming, Data Structures and Algorithms

**CI/CD:** Git, GitHub, GitBash, Docker, Kubernetes, Jenkins

## PROJECTS

### Automated Image Analysis & Placement | Java, JavaFX GUI, Python, OpenCV, Mediapipe September 2025

- Developed a Java GUI program using the JavaFX framework with a Python-powered backend to support automatic placement of photo image assets into a selected "base image".
- The GUI provides the user with an interface to select base images that are then analyzed by a Python backend to select the proper X,Y coordinates, and the scale of the added image asset.

### MAGIC | Python, Django, MySQL, Apache Airflow, HTML, Bootstrap 4/CSS June 2025

- MAGIC (Monitoring Attaction Guest flow with Interactive Charts) Developed the design and functionality of a full-stack Web application (UI & backend services) using Django, HTML, CSS, and Bootstrap 4. The web app displays Theme park attraction-specific wait time information selected by a user. Wait time information is filtered and displayed using a wait time vs. time of day graph.
- Developed an Automated tool to capture live API data, convert JSON data to usable Objects, and store the Objects in a MySQL database using Python for scripting, SQLAlchemy for ORM, and Apache Airflow for Automation/scheduling

### Image format Converter | C++, OpenCV Aug 2025

- Developed a Command Line Interface (CLI) program that accepts command-line arguments. The arguments inform the program where the image is located (path) and which image format to convert the image into (JPG, PNG, WEBP, etc)
- The program uses the OpenCV library for C++ to handle image loading (read) and image converting (write) operations

### Rocket Launch Data Management System | Java, MySQL, Hibernate, Swing GUI Dec 2024

- Developed a Java Swing GUI program using OOP principles that allows users to interact with and manipulate data stored in a MySQL database.
- A Java back-end handles creating objects entered by a user via text input or batching, with file upload in a CSV format. Querying the MySQL database is handled using Hibernate as an ORM where each row of data is represented as an object in the program.

## EXPERIENCE

### DARTS Project Lead

May 2025 – August 2025

Orlando, FL

*Valencia College & University of Central Florida (UCF)*

- Coordinated deliverables for a team of 4 developers, leading weekly team stand-ups and "1-on-1" meetings to adhere to a strict Agile development methodology and deliver on schedule.
- Utilized virtual environments (Docker, Kubernetes, and Helm) to provide a robust environment that scales with demand. Utilized Test-Driven Development (TDD) to ensure test compliance and proper program functionality.
- Built data pipelines following FAIR (Findable, Accessible, Interoperable, and Reusable) principles using Python & Apache Airflow to parse raw data into a format suitable for storing in a relational database. Used Data Structures and Algorithm techniques to optimize data parsing/file handling.