

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 Attraction 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

Valencia College & University of Central Florida (UCF) *Orlando, FL*

- 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.