

Arthur Freire

arthurfreire2505@gmail.com | linkedin.com/in/arthurarfreire | github.com/arthurarf

EDUCATION

University of Central Florida

Bachelor in Computer Science, Minor in Secure Computing and Networks

Orlando, FL

Jan. 2024 – May 2027

EXPERIENCE

Full Stack Developer

Sep 2025 – Present

BRASA Global

- Programmed front-end and back-end features using **React**, **Next.js**, **React Native**, and **Django REST Framework**, enhancing app responsiveness and improving site load time by 22% for **10K+** global users.
- Integrated payment processing and user authentication with **Stripe API** and **Python/Django**, reducing checkout errors and improving transaction reliability.
- Collaborated with cross-functional developers to **debug**, test, and deploy updates in Dockerized environments via GitHub Actions **CI/CD** pipelines, ensuring stable production releases.

Student Director

May. 2025 – Present

University of Central Florida

Orlando, FL

- Promoted** to Student Director based on **performance and initiative**; lead office operations, team meetings, and student staff while serving as a **primary point of contact** between UCF and Valencia College at the Downtown campus
- Selected as the **only returning student staff member** for the following academic year and **participated in interviewing** and evaluating candidates for the incoming team.
- Created and reimagined three signature campus events adopted as recurring programs, attracting **250+ students** at major events and earning **100% satisfaction ratings** in attendee feedback.
- Expanded cross-campus collaboration** between UCF Downtown, Main Campus, and Rosen College while improving operations through centralized inventory workflows and more cost-effective vendor sourcing

Teacher Assistant Introduction to Programming

Jan 2020 – May 2020

UNIPAC

Brazil, MG

- Guided **10+** students weekly in **C** and **Python** fundamentals, teaching algorithm design and debugging techniques through interactive coding sessions resulting in an average 20% improvement in exam performance.
- Delivered one-on-one tutoring on loop structures, recursion, and data structures in **C** and **th**, helping students debug assignments and improve code efficiency.
- Created interactive flowcharts, pseudocode exercises, and algorithm visualizations to demonstrate real-world applications of computational problem-solving.

PROJECTS

Gamified Learning App | Python, Flask, React, PostgreSQL, Docker

- Designed and developed a full-stack educational platform using **Flask** (backend), **React** (frontend), and **PostgreSQL**, teaching data structures through interactive gameplay and AI-driven tutoring.
- Integrated **OpenAI GPT-4 API** to deliver adaptive tutoring and real-time Q&A, enhancing user engagement.
- Conducted user testing with **90+** students; 90% reported improved comprehension of data structures versus traditional e-learning sites.

Secure Finance Tracker | Java, C, Python, React, SQL, Chart.js, Docker, AWS

- Developed a secure cloud-based finance dashboard using **React**, **Django REST API**, and **AWS EC2**, implementing **OAuth 2.0**, data encryption, and SQL injection prevention to ensure compliance-grade security.
- Designed and deployed **Chart.js**-based financial visualizations enabling real-time tracking of budgets and investments.
- Implemented an end-to-end **CI/CD** pipeline using **GitHub Actions**, **Docker**, and **AWS**, automating testing and deployment.

AI-Driven Volleyball Insights Engine | Python, Pandas, React, Chart.js

- Developed a **Python + React** web dashboard leveraging **Pandas** and **Chart.js** to analyze match statistics (points, blocks, hitting %, spike zones) for player performance insights.
- Implemented data visualizations showing opponent tendencies and predicted set distributions based on past matches.
- Designed interactive charts and heatmaps with **React** and **Chart.js**, allowing users to explore performance patterns in an intuitive way.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib