

# Tarek Tawila

Software Developer — FrontendFocus  
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Portfolio: <https://tarek-dev.netlify.app>

## Profile Summary

Frontend-focused Software Developer specializing in React and modern JavaScript, with full-stack experience using Python/Flask. Passionate about building responsive, data-driven applications, improving UI performance, and creating polished user experiences. Strengthened by a background in visual design and Adobe creative tools, bringing strong UI/UX awareness to frontend development.

## Technical Skills

Frontend: HTML, CSS, JavaScript, React, Tailwind, Bootstrap  
Backend: Python, Flask, REST APIs, SQLAlchemy  
Databases: PostgreSQL, SQLite, Elasticsearch  
Tools: Git, GitHub, Netlify, Firebase, Google Cloud, SendGrid  
Creative Tools: Adobe Photoshop, Lightroom, After Effects, Premiere Pro  
Other: BeautifulSoup4, i18n, CSRF protection

## Technical Projects

### Coffee-Radio — Full-Stack Web Application (2024)

Full-stack platform combining coffee dataset analytics, AI chat assistance (Groq API, Llama 3.1), and genre based music streaming. Features SSE streaming, SQLite caching, curated playlists, Flask backend, and a custom JS frontend. **Tech Stack:** Flask, Python, Pandas, SQLite, JavaScript, SSE Streaming, Groq API, HTML/CSS **GitHub:** <https://github.com/Killerbee663/Coffee-Radio> **Live Demo:** <https://coffee-radio.onrender.com>

### PaperLight — Full-Stack Web Application (2024)

Multilingual Flask app with secure login, PostgreSQL, SQLAlchemy, SendGrid email integration, i18n, and deployment on Render.

**Tech Stack:** Flask, Python, PostgreSQL, SQLAlchemy, SendGrid, HTML/CSS/JS, Google Cloud

**GitHub:** <https://github.com/Killerbee663/PaperLight>

**Live Demo:** <https://paperlight.onrender.com>

### Space Invaders — JavaScript Browser Game (2023)

Classic arcade game recreated using JavaScript and HTML Canvas featuring movement, shooting mechanics, collision detection, and increasing difficulty.

**Tech Stack:** JavaScript, HTML Canvas, CSS

**GitHub:** <https://github.com/Killerbee663/mySpaceInvaders>

**Live Demo:** <https://alien-invasionz.netlify.app/>

## Professional Experience

### **Software Engineer (Full-Stack) — OpenQQuantify (2024) intern**

- Modernized frontend components using React, JavaScript, and Bootstrap
- Developed backend features in Flask with REST APIs and SQLAlchemy
- Contributed to Agile sprints, debugging, feature planning, and code reviews
- Worked with authentication flows, data handling, and cloud workflows

### **Game Tester (QA) — Electronic Arts (2019–2021)**

Apex Legends, Battlefield Mobile

- Performed QA testing, Jira bug reporting, and TestRail workflows
- Validated gameplay patches and collaborated with developers

### **Freelance Video Editor (2016–2024)**

- Edited commercial and social-media videos using Adobe Premiere Pro & After Effects
- Created motion graphics, VFX, color correction, and branding assets
- Designed graphics using Photoshop and Lightroom

## **Certifications**

Mayerfeld Consulting Practicum Program — Front-End Development (2024)

## **Education**

SAE Institute — 3D Animation & Game Design (2019)