Daniel Aoulou

(470) 461-8023 | aouloudan@icloud.com | linkedin.com/in/danielaoulou | fullstackdan.dev

EDUCATION

Western Carolina University   Cullowhee, NC
Bachelor of Arts in Computer Science, Minor in Mathematics   *August 2022 – May 2025*

EXPERIENCE

Web Developer   May 2021 – Present
Freelance   *Atlanta, GA*
- Design and develop custom websites for over 20 small and medium businesses across Metro Atlanta, including salons, boutiques, tutors, and retailers.
- Built and maintained responsive landing pages, ecommerce shops, and organizational websites, tailored to client branding and business goals.
- Advised clients on optimizing their digital presence using tools like Google Business, SEO, and analytics, resulting in increased visibility and lead generation.
- Provided end-to-end support, from wireframing and design to deployment and training, empowering clients to manage and grow their web presence independently.

PROJECTS

Progranimate | *TypeScript, Python, React, TailwindCSS, Node.js, Express, MongoDB*   August 2024 – May 2025
- Developed a web-based application that visualizes program logic via a drag-and-drop flowchart, enabling bidirectional syncing between code and flowchart using UUID tracking and a custom CodeMirror extension.
- Designed and implemented a Node.js backend, introducing secure user authentication, role-based access control, and a persistent data model that enabled core features like user accounts, group management, and the modular Exercises system.
- Built a modular Abstract Syntax Tree code validation pipeline, allowing instructors to define structural rules (e.g., required loops, nesting depth) and deliver detailed, server-side validation feedback.
- Designed full CRUD tooling and dashboards for instructors to manage assignments, student groups, and custom exercises, including rule-based configuration and dynamic form generation.

CatGPT | *Google Cloud Platform, DialogFlow, Gemini API, Cloud SQL*   November 2024 – December 2024
- Designed and deployed a real-time AI chatbot on Google Cloud Platform, leveraging Dialogflow and a Node.js/Express backend to provide natural language support for students exploring a university's computer science program.
- Built a responsive frontend in React with animated message rendering and async data fetching, enabling fluid, conversational interaction and seamless user experience.
- Integrated cloud-based NLP processing with secure API endpoints to handle user queries, using RESTful routing and JSON communication between client and server.
- Engineered a modular backend architecture to manage chatbot routing, fallback handling, and Dialogflow integration, enabling extensibility for future course or university expansions.

3Playaa | *JavaScript, React, Shopify*   January 2023 – March 2023
- Built a fully functional Shopify storefront using React, Shopify Buy SDK, and React Router, enabling dynamic product browsing, cart management, and checkout flow.
- Engineered a responsive frontend and custom cart system with live quantity updates, subtotal tracking, and session persistence via React Context API.
- Designed rich product experiences with variant selectors, image galleries, and price comparisons to enhance usability and support conversion-focused UI.
- Combined software engineering with brand-aligned ecommerce design, delivering a storefront that supports 3Playaa's business goals, marketing, and online sales strategy.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML/CSS, Java, Python, SQL (Postgres, MySQL), MongoDB, Rust, C, R
Frameworks / Libraries: React, Node.js, Express, TailwindCSS, daisyUI
Tools: Git, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Eclipse, Figma