ALESSANDRA SALANITRI

COMPUTER SCIENCE GRADUATE

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🌐 https://alessandrasalanitriportfolio.info/

SUMMARY

Results-driven Computer Science graduate with hands-on experience with full-stack web and mobile applications using Python, JavaScript, and React. Passionate about AI and backend development, with a focus on RESTful API integration, machine learning, and real-time user feedback systems.

Proficient in Python (Flask, automation, LLMs), JavaScript (React, Node.js), and PostgreSQL. Familiar with CI/CD workflows using GitHub Actions and cloud platforms like Firebase and AWS EC2 (basic). Currently contributing to a start-up as a freelance full-stack developer. Available for full-time opportunities and ready to contribute immediately.

SKILLS

- **Languages:** Python, JavaScript, TypeScript, Java, HTML5, CSS
- **Frameworks & Libraries:** React, Node.js, Express.js
- **Databases & Backend:** MongoDB, MySQL, SQLite, PostgreSQL, Firebase (Auth, Firestore)
- **Tools & Platforms:** Git, GitHub, Figma, Canva, Draw.io
- **Cloud & DevOps (Basic):** AWS EC2 (basic), GitHub Actions (CI/CD)
- **Testing:** Postman
- **AI & Machine Learning:** scikit-learn, TensorFlow, OpenCV, LangChain
- **CS Concepts:** Algorithms (Binary Search, K-Means), Data Structures (Arrays, Trees), Big O Notation, SDLC, Agile, Linux (basic)

Communication & Interpersonal

- Effective communicator with experience in cross-functional collaboration,
- Strong problem-solving and critical thinking,
- Adaptable team player with excellent time management skills
- Detail-oriented and proactive in resolving issues and meeting deadlines

EDUCATION

Solent University School of Media Arts and Technology
BSc (Hons) - Computer Science

| London, UK | 2022-2025 |
| Expected Grade | 2:1 (Upper Second Class Honours) |

CERTIFICATION

CCNA (Cisco), Google AI Essentials, Google Cybersecurity, Shell Scripting (Linux)

PROJECTS

Dissertation – CLARK, Digital Companion for the Visually Impaired

Designed and developed a multi-modal, AI-powered digital companion for visually impaired users.
- Implemented real-time text and object recognition (OCR and vision) for environmental understanding,
- Integrated LLM-powered conversation and voice feedback for natural, accessible interaction,
- Used LangChain to route user intents to the appropriate logic module,
- Built a modular backend using Flask with controller-based architecture and multi-modal API endpoints,
- Designed a responsive web interface with an animated avatar and viseme-based lip sync for demo accessibility.

Tech stack: Python, Flask, LangChain, OpenCV, LLM APIs, JavaScript, HTML/CSS, Canva

Industrial Project - AI-Powered Content Delivery Platform (NDA-limited)

Led a team of five to develop a production-ready, multilingual web application for a private client. The platform delivers dynamically generated content with real-time narration and personalized visuals, tailored to enhance user engagement and accessibility.
- Developed a responsive UI using React and TypeScript, featuring theme and language switching,
- Integrated LLM-based content generation and Text-to-Speech (TTS) capabilities to provide real-time auditory output,
- Implemented role-based access, account linking, and secure data handling using Firebase Auth and Firestore,
- Designed an interactive onboarding tour using Joyride to improve first-time user experience,

Tech stack: React, TypeScript, Firebase (Auth, Firestore), Google TTS API, Groq LLM, Joyride.js

More projects available at: https://github.com/AlessandraSalanitri

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WORK EXPERIENCE

Freelance Full-Stack Developer
E-commerce Start-up – Remote (Jun 2025 – Present)
- Developing an MVP for a cross-platform app using React and PostgreSQL
- Implementing user interaction tracking, with early ML-based analytics for personalized experiences
- Contributing to core architecture and UI while ensuring clean, scalable codebase

Freelance Web Developer
Charity Football Club Website – Remote (Mar 2025 – Apr 2025)
- Built and deployed a responsive landing page using HTML, CSS, and JavaScript with Firebase integration
- Automated investor contact responses via custom email logic
- Applied SEO best practices and integrated Google Search Console to optimize visibility