

Marios Konstantinos Giannoulis

Software Engineering/ Computer science Student | Web & Front-End Developer | Founder of Pixel Node Studio

Athens, Greece

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My Portfolio: mariosgian.github.io

My Studio: <https://pixelnodestudio.com>

PROFILE

Passionate software engineering student and web developer with a strong foundation in C/C++, Python and core computer science principles. Founder of Pixel Node Studio, a small digital studio that designs and develops modern, responsive websites for small businesses and professionals. Comfortable working end-to-end: from understanding requirements and designing the solution, to implementing, testing and deploying it using Git-based workflows.

I care about clean, maintainable code, performance and a good user experience. Currently strengthening my skills in Python and starting with MATLAB for numerical computing and modeling, with growing interest in robotics and simulation tools. Highly motivated to learn, solve real problems and contribute to collaborative software engineering projects.

SKILLS

Programming:

- C, C++ (academic use)
- Python (fundamentals, scripting)
- JavaScript (ES6+ basics)

Web Development:

- HTML5, CSS3, Tailwind CSS
- Responsive Web Design & basic UI/UX principles
- Basic SEO and performance optimization (semantic HTML, meta tags, asset optimization)

Software Engineering & CS:

- Data Structures & Algorithms
- Basic Object-Oriented Programming
- Software Engineering fundamentals (requirements, modularity, code reviews)
- Debugging, testing and refactoring

Tools & Workflow:

- Git, GitHub, VS Code
- macOS, basic Linux usage
- Figma (basic for wireframes and simple UI)

Currently Learning:

- MATLAB for numerical computing and modeling
- Introductory robotics concepts (robot kinematics, simulation use cases)

Languages:

- Greek (native)
- English (fluent, C2 diploma)
- French (fluent, B2 diploma)

EXPERIENCE

Web Developer — Founder, Pixel Node Studio, Athens, Greece

September 2025 – Present

Founded and currently lead Pixel Node Studio, a small web studio creating modern websites for small businesses and professionals.

- Designed and developed 6+ client and demo websites using HTML, CSS, JavaScript and Tailwind CSS.
- Built multilingual and multi-page sites (EN/GR/FR) with responsive, mobile-first layouts and accessible structure.
- Implemented on-page SEO and performance optimizations (semantic HTML, meta tags, image optimization, CSS/JS minimization) to improve load times and search visibility.
- Used Git and GitHub for version control, incremental development and safe deployments.
- Translated client needs into clear technical requirements, wireframes and implementation plans.
- Performed testing, debugging and refactoring to ensure stability and maintainability of each project.
- Managed the full development lifecycle — from initial concept and design, to deployment and ongoing updates/support.
- Collaborated directly with clients, communicating trade-offs and explaining technical choices in simple terms.

PROJECTS

Factorization Algorithm (C++, <https://github.com/Mariosgian/Factor>)

- Implemented an optimized prime factorization tool for two integers in C++.
- Practiced efficient use of data structures and time-complexity trade-offs.
- Used GitHub for version control and documentation.

Traveling Salesman Solver (C++, <https://github.com/Mariosgian/TSP-Algorithm>)

- Implemented heuristic approaches for the Traveling Salesman Problem.
- Compared different strategies based on execution time and path quality.
- Focused on writing readable, modular C++ code and documenting the design decisions.

EDUCATION

BSc in Informatics and Telecommunications (ongoing)

National and Kapodistrian University of Athens (UOA)

September 2024 – Present

- Currently pursuing a Bachelor's degree in Informatics and Telecommunications (2nd year).
- Relevant coursework: Computer Science Fundamentals, Algorithms, Data Structures, Computer Architecture, Discrete Mathematics, Web Development.
- Actively applying academic knowledge to real-world projects through Pixel Node Studio, with focus on front-end development, UI/UX and performance optimization.
- Independently practicing Python and starting with MATLAB for data processing, numerical methods and basic modeling, aiming to connect these skills with future work in robotics and simulation tools.