

Konstantinos-Marios Kaplanis

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Full Stack Software Engineer

BIO/ Summary

About me Passionate and driven Full Stack Developer with a strong focus on React and Django REST Framework. I thrive on building dynamic, user-friendly web applications end-to-end, from the frontend UI to the backend API, and continually seek to enhance my skills in modern web development technologies. With a keen eye for detail and a commitment to delivering high-quality work, I am eager to contribute to innovative projects and collaborate with talented teams. Let's connect and create something amazing together!

Experience

May 2024 - Now Full Stack Software Engineer at [Pixelocracy](#)

I work in a team using Agile and Kanban methods to build and maintain modern web apps with React and Next.js. I have been part of important public projects like Ktimatologio and GovPortal.

- Focused on building apps using Next.js App Router and styling with Tailwind CSS
- Added login and user sessions with NextAuth.js
- Used Redux Toolkit, React Context, and React Query to manage data and app state
- In the last 6 months, expanded into full stack development, designing and building REST APIs with Django and Django REST Framework (DRF) to power the Next.js frontends
- Worked closely with team members to keep the code clean, fast, and easy to maintain

2023-2024 Self-Directed Frontend Development Training

While studying, I spent time learning web development on my own. I started by building several small projects using PHP, HTML, CSS and vanilla JavaScript. Later, I moved on to working with the React library and modern tools like Next.js and Tailwind CSS. *Some of the projects I built during this time are listed below.*

Skills

Technologies HTML, CSS, Vanilla JS, React, Typescript, Next.js, Tailwind CSS, Redux Toolkit, React Hook Form, Yup, Tanstack Query, Django, Django REST Framework, Python, FastAPI, SQLAlchemy, PostgreSQL, Redis, Docker, OpenAI API, Google Gemini, Vercel AI SDK, Zod, PyTorch

Greek Mother tongue

English Pearson Test of English C2

Projects

Medical Assistant (Diploma Thesis)	Undergraduate diploma thesis at the Computer Engineering and Informatics Department, University of Patras. I designed and built a full-stack medical RAG (Retrieval-Augmented Generation) chat application that helps physicians get brief, evidence-based answers to clinical questions. ◦ Implemented a Next.js frontend with streaming chat UI, conversation history, model selection, and JWT/Google OAuth authentication ◦ Built a FastAPI backend with REST APIs, SSE streaming, and persistent conversations stored in PostgreSQL ◦ Developed a RAG pipeline using the MIRIAD medical dataset, sentence-transformers embeddings (Qwen), and Redis Stack vector search (RediSearch KNN) ◦ Integrated OpenAI and Google Gemini LLMs for streaming responses and automatic conversation title generation ◦ Containerized the full stack with Docker Compose (Next.js, FastAPI, PostgreSQL, Redis, Redis Stack) <i>Technologies:</i> Next.js, React, TypeScript, Tailwind CSS, Vercel AI SDK, FastAPI, Python, SQLAlchemy, Alembic, PostgreSQL, Redis, Redis Stack, OpenAI API, Google Gemini, sentence-transformers, PyTorch, Hugging Face, Docker.
Patras Optimist U13	Website for the Patras Optimist U13 (patrasoptimistu13.gr), a Panhellenic sailing regatta for the Optimist class, U13 category (Demo).
TeacherFox	Part-time Frontend Developer for about 2 years, as part of the founding team building an early-stage startup MVP connecting teachers and students. ◦ Built an admin dashboard and two distinct user roles (teachers and students) with dedicated onboarding flows ◦ Implemented a filtering system based on location, price, and other criteria, with a dynamic map view ◦ Set up authentication with NextAuth.js and JWT tokens ◦ Managed app-wide state with React Redux ◦ Built the UI with Next.js App Router and integrated the Google Maps API for location-based features The platform never reached production, but the UI is showcased on the designer's portfolio (Demo).
Volunteer Coordination Platform	Volunteer coordination platform during natural disasters implemented with Vanilla JS, Leaflet JS API, PHP and SQL database (Github Demo).
RandomIdeas App	This project is a Full CRUD REST API with a database, created by studying Brad Traversy's Udemmy Courses (Github Demo).
Flixx App	This project is a netflix like application created with vanilla js and fetching the movies and tv-shows data from themoviedb.org, created by studying Brad Traversy's Udemmy Courses (Github Demo).
Tracalorie App	This project is an app for tracking calories, meals and workouts implemented by studying Brad Traversy's Udemmy Courses (Github Demo).
IMIS-LAB	A static website of the IMIS Laboratory of MEAD Department, at University of Patras, using wordpress and custom HTML & CSS (Demo).
NewsGrid Website	A modern UI design for a news website implemented by studying Brad Traversy's Udemmy Courses (Github Demo).
Edgeledger Website	A modern HTML & CSS website implemented by studying Brad Traversy's Udemmy Courses (Github Demo).
Hamburger Menu	A modern mobile menu UI created with Vanilla JS and CSS by studying at Brad Traversy's Udemmy Courses(Github Demo).
Form validator	This project is a simple form-validator that checks the user's input created with vanilla js. (Github Demo).

Education

- 2019–Now **Undergraduate student at Computer Engineering and Informatics Department, University of Patras. Diploma thesis: *Medical Assistant* – a RAG-based clinical question answering system for physicians.,** [CEID](#), UoP.
- 2018-2019 **High School Diploma,** [Nea Figaleia](#), Greece.
- 2017-2018 **EUSO 2018,** *participation in the European competition of natural experiments EUSO 2018 representing country Ileias on Stage 2: Panhellenic competition,* Greece.

Certifications

- Udemy Modern HTML & CSS From the Beginning (Including Sass) [Link](#).
- Udemy Modern JavaScript From The Beginning 2.0 (2024) [Link](#).
- Udemy React - The Complete Guide 2024 (incl. React Router & Redux) (In Progress).

Hobbies

- Leisure Crossfit, Music, Movies, Video games
- Volunteer Volunteer rescuer in the Rescue and Volunteer Team of Figalia (DEOF). Knowledge of First Aid. Participation in EKAB and Fire Department seminars.