

# Anastasios Orfanidis

## Technical Lead / Software Engineer

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### PROFILE

Full stack engineer with 13+ years of development experience and 2 years leading teams. I care about the fundamentals: semantic HTML, accessibility, clean architecture, and testing that gives you real confidence. I've shipped production software across health tech, education, property, defence, biotech, civic engagement, and developer tooling, and I bring that breadth to every team I join.

Currently leading engineering at EkoHacks, a software craftsmanship initiative where I set the technical direction, build products, and run workshops on TDD and clean architecture. In parallel, I delivered a gamified medical training platform and congress app for Open Health and now support them as an affiliate for ongoing product development. AI assisted development tooling is part of my daily workflow, and I've built RAG powered applications from scratch. At my best when I can contribute to both the technical work and the conversations around it.

### CORE TECHNICAL SKILLS

#### FUNDAMENTALS

Semantic HTML, web standards, accessibility first development (WCAG), CSS architecture (ITCSS, BEM), composition over configuration for component design, HTTP, REST, progressive enhancement

#### AI AND LLMS

RAG architectures, OpenAI API, AI assisted development (Claude Code), prompt engineering, document retrieval pipelines, AI agent patterns

#### LANGUAGES

TypeScript, JavaScript (ES6+), Python, Elixir

#### FRONTEND

React, Vue 3, Next.js, Nuxt 3, SvelteKit, Astro, React Native, Tailwind CSS, Radix UI

#### BACKEND

Node.js, FastAPI, Express, Fastify, NestJS

#### DATA

PostgreSQL, MongoDB, SQLite, Supabase, Firebase (Firestore), Prisma, Drizzle ORM

#### INFRASTRUCTURE

Docker, Kubernetes, AWS Amplify, GCP, CI/CD, Railway

#### REAL TIME

WebSockets, reactive patterns (RxJS), custom DDP protocol, event driven architecture

#### ENGINEERING PRACTICES

TDD/BDD, Nullable Infrastructure (Testing Without Mocks), Vitest, Playwright, Cypress, XP programming, pair programming, keyboard only development

### PROFESSIONAL EXPERIENCE

#### Fullstack Engineer | Open Health (Contract)

November 2025 to Present

- Independently designed, built, and deployed a gamified medical training platform (Vue 3, TypeScript, Vuetify, AWS Amplify)
- Built a congress app with Electron for offline use at medical conferences
- Delivered admin dashboard with CSV import, real time leaderboard, and dynamic question management within sprint timelines
- Architected modular state management with cloud backed persistence and multi room progression
- High test coverage with Vitest and Cypress for confident, rapid iteration

#### Technical Director | EkoHacks (ekohacks.com)

August 2024 to Present

Leading engineering and product development at a software craftsmanship initiative that runs consulting engagements, intensive developer workshops ("The Dojo"), and builds its own product suite.

- Setting technical direction and product roadmap while designing, building, and shipping multiple concurrent projects
- Coaching a team of developers (compassion led, grounded in Liz Hall and Freirean pedagogy: dialogue over instruction)
- Using Claude Code to accelerate development across every project: code generation, refactoring, test creation
- Running product discovery with stakeholders, scoping features, presenting technical decisions to non technical audiences
- Teaching Nullable Infrastructure (Testing Without Mocks) across all projects: embedded stubs, configurable responses, output tracking
- Introduced "no mouse" development culture for keyboard first accessibility
- Delivering workshops on TDD, API design, Node.js; engineering culture through XP, pair programming, daily code reviews
- Shipping across Next.js, SvelteKit, Nuxt, Fastify, FastAPI, and PostgreSQL, often multiple in parallel

#### Software Engineer | AND Digital

September 2022 to April 2025

- Owned technical delivery of a production insurance mobile app (React Native, TypeScript), architecture through to release
- Built React applications on AWS with Storybook for component development and Storyblok headless CMS
- Created Node.js proxy services for defence data applications (AWS API Gateway, SQS), cross functional collaboration
- Mentored junior developers in React Native, Node.js, and TypeScript across web and mobile
- Introduced testing strategies (React Testing Library, Zod) and documentation practices improving delivery consistency

#### SDK Developer | Sky (Contract)

September 2021 to July 2022

- Shipped core video SDK (TypeScript) for NowTV and Peacock, deployed across Xbox, PlayStation, and LG TV to millions of users
- Performance improvements through optimised video parsers on Shaka Player and Akamai CDN stack
- Applied observable patterns (RxJS) for reactive state management across streaming components

#### Software Engineer | Clarivate Analytics

September 2018 to July 2021

- Created React/Redux applications with Redux Saga for document workflows and research data integration (EndNote Web)
- Shipped Chrome extensions and MS Word plugins (web extension APIs, OfficeJS) for the academic research community
- Modernised legacy JavaScript codebase: ES5 to ES6 and TypeScript migration
- Authored Node.js build tools and automation scripts for deployment and workflow optimisation

## Full Stack Developer | AmberBox

March 2017 to June 2018

- Designed and shipped RESTful APIs from requirements to production for a gunshot detection platform
- Delivered scalable MEAN stack applications (Angular, Node.js/Express, MongoDB)
- Containerised applications with Docker and Kubernetes on GCP, owning the full deployment pipeline

## Developer | Williams Lea Tag, VML, Earlier Roles

January 2013 to February 2017

- Interactive web applications (JavaScript, AngularJS, GreenSock) across multiple client engagements
- Integrated enterprise platforms: Salesforce CRM, Adobe Experience Manager (CQ5)
- Introduced BDD/TDD practices and automated workflows for consistent delivery

## PROJECTS BUILT AT EKO HACKS

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All tested using the Nullable Infrastructure pattern: embedded stubs, configurable responses, and output tracking replace mocks at every layer.

**AI Powered Document Platform** | Next.js 15, React 19, FastAPI, OpenAI API, Supabase, pgvector, Docker Full stack RAG platform.

Document ingestion pipeline (chunking, vector embeddings, pgvector), streaming chat responses, semantic search, ephemeral sharing with session expiry and query quotas, LLM agent with conversation history. Nullable wrappers for database, storage, and HTTP, enforced by architectural tests (pytestarch).

**Genomic Visualisation Platform and Real time Framework** | Fastify, MongoDB, WebSocket, TypeScript, React, Highcharts Built for a biotech research team to visualise sequencing alignment data (BAM files) with interactive Hilbert curve rendering and live parameter adjustments. Meteor prototype was too heavy, so we wrote our own real time framework (~820 lines): reactive store, mini DDP protocol, file uploads, live sync. Developed entirely through TDD with Nullable wrappers for MongoDB, WebSocket, and file storage.

**Developer Metrics Platform** | SvelteKit, Fastify, Prisma, PostgreSQL Gamified developer productivity tool. GitHub webhook integration, DORA metrics, XP system. Monorepo architecture.

**Health Tech Platform** | React, React Native, Firebase, TypeScript Medication management for a healthcare initiative in West Africa. Web and mobile with Firebase real time sync, push notifications for adherence, multi language support.

**Civic Platform** | Astro, TypeScript, D3.js, Content Collections Solo built from zero (336 commits). 44+ components, bilingual content architecture (Greek/English), D3 visualisations, reusable design system, structured content collections. Designed for accessibility across non technical audiences.

**Learning Platform** | NestJS, Nuxt 3, Vue, Supabase, Drizzle ORM Team built education platform in a monorepo (pnpm workspaces). Training ground for TDD and Nullable Infrastructure in a real product.

**Environmental Monitoring Map** | Leaflet.js, Webpack, SASS Interactive geospatial tool for environmental data collection in the Evros region (Greece) with citizen participation.

## EDUCATION

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**BSc Applied Informatics** | University of Macedonia, Thessaloniki, Greece | 2006 to 2012 Computer Science, Economics, and Business Administration

**Multimedia and Internet Technologies (Erasmus)** | University of Salford, UK | 2010 to 2011

*I bring strong fundamentals, a wide range of domain experience, and a coaching approach rooted in compassion and dialogue. I'm looking for a team where I can contribute technically, help others grow, and keep building things that matter.*