

# Madalina Pastiu

Software Developer | Front-End & Full-Stack Web Engineer

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## Professional Summary

Software Developer with hands-on experience building responsive, production-ready web applications using React, TypeScript, and modern JavaScript. Skilled in full-stack development, REST API integration, and secure authentication workflows. Proven ability to deliver end-to-end features from UI/UX design through backend logic and deployment. Passionate about writing clean, scalable code and solving real-world problems through thoughtful user experiences.

## Technical Skills

### Frontend Development:

HTML5, CSS3, Tailwind CSS, JavaScript (ES6+), TypeScript, React, Next.js, Vite, Responsive & Accessible UI/UX

### Backend & APIs:

Node.js, Express, Java, RESTful APIs, JWT Authentication, Third-Party API Integration

### AI & LLM Technologies:

Large Language Models (LLMs), LangChain, LlamaIndex, OpenAI API, Retrieval-Augmented Generation (RAG) workflows

### Databases & Backend Services:

Supabase (database, authentication, persistence)

### Tools & Workflow:

Git, GitHub, VS Code, Browser DevTools, Figma, Postman

### Core Concepts:

State management, DOM manipulation, AJAX, debugging, performance optimization, secure coding practices, cross-browser compatibility

## Professional Experience

### **Software Developer - Exatect**

2025 – Present

- Developed and enhanced secure full-stack applications with React, TypeScript, Node.js, and RESTful APIs, delivering multiple production-ready features in a fast-paced startup environment.
- Implemented JWT-based authentication and role-based access control, reducing potential vulnerabilities and protecting sensitive data.
- Built responsive, accessible frontend components, improving usability across devices and ensuring cross-browser consistency.

- Optimized backend services and APIs, improving performance and reducing average response times by ~20%.
- Detected and remediated security and performance issues, increasing system reliability and reducing runtime errors by ~30%.
- Applied clean, maintainable, and modular coding practices, reducing debugging time by ~25%.
- Collaborated in architecture discussions, peer code reviews, and CI/CD workflows to ensure secure, scalable, and efficient deployments.

### ***Independent Software Developer (Freelance)***

2023 – 2026

- Designed, developed, and deployed multiple full-stack web apps using React, TypeScript, Node.js, and Express.
- Built secure authentication flows with JWT and Supabase for persistent user sessions and protected routes.
- Integrated RESTful and third-party APIs to deliver real-time, data-driven functionality.
- Delivered end-to-end features across UI/UX, frontend, backend logic, and database persistence.
- Implemented responsive, accessible interfaces with a focus on usability and modern design principles.
- Managed full development lifecycle including planning, version control, testing, debugging, and deployment.
- Ensured cross-browser compatibility and applied secure, scalable coding practices.

### **Selected Projects Highlights**

#### *AI-Powered PDF Knowledge Assistant*

- React, Node.js, Express, OpenAI API, LangChain, LlamaIndex
- Full-stack AI web application allowing users to upload PDF documents and query content via natural-language chat.
- Implemented document parsing and semantic search using embeddings and retrieval-augmented generation (RAG).
- Built responsive chat UI and API communication pipeline for real-time interaction.

#### *GitHub Repository Explorer*

- React, TypeScript, Express, JWT, Supabase
- Developed a full-stack application enabling users to search GitHub repositories and save favourites.
- Implemented user authentication, session handling, and persistent data storage.
- Designed clean, responsive UI with scalable state management.

### **Education & Certifications**

#### **Oracle Certified Associate, Java SE 8 Programmer**

*Oracle (Certification)* – Demonstrated core Java proficiency.

**The Complete JavaScript Course: From Zero to Expert!**  
*Udemy* – Comprehensive coverage of modern JavaScript.