Paolo Fiol

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Full-Stack Software Developer with 3+ years of experience architecting scalable solutions in Agile enterprise environments with a specialization in the MERN stack.

Work Experience

Full-Stack Software Developer, TCS Tata Consultancy Services   July 2022 – Oct 2025

- Led feature development for workforce management suite serving 60K+ employees with AngularJS & Node.js
- Designed and optimized database queries, migrating multiple legacy queries from using subqueries to table joins
- Maintained our automated CI/CD scripts and delivered an optimization that cut our test pipelines times by 50%
- Debugged code to identify and resolve the root cause of issues, enhancing software reliability
- Mentored junior engineers through code reviews and pair programming sessions

Skills

Programming Languages: JavaScript, TypeScript, Java, C++, Python, SQL, HTML, CSS, NoSQL

Frameworks / Libraries: React, Angular, Next.js, Cloudinary, React Testing Library, MongoDB

Tools / Runtimes: Node.js, Webpack, Vite, Docker, Git, Azure DevOps, Postman

Projects

Open-Source Marketplace App: https://marketplaceapp-lyart.vercel.app/

- A full-stack point-of-sale solution for vendors which features multiple user support, persistent shopping carts, product purchases with authentication, and profile management. Secure login enabled with JSON Web Tokens. Built with React/MongoDB/Express. Deployed via Vercel with continuous integration.

Social Network App: https://social-network-app-pi.vercel.app/

- A scalable social network platform with real-time updates. Features user profiles, posts, likes, comments, notifications, E2E encrypted real-time messaging and image upload via Cloudinary. Built with React/Express/MongoDB. Deployed via Vercel with continuous integration.

Dynamic Memory Tracker

- Senior Project. A dynamic memory manager written in C++ which features memory initialization, tracking, allocation and deallocation of memory blocks. Capable of detecting memory leaks, invalid frees and reallocations. Includes extra debugging features including a memory visualizer and a method for changing the internal allocation algorithm.

Education

University of Florida – Bachelor of Science in Computer Science   May 2022

- **Coursework: Data Structures & Algorithms, Database Systems, Operating Systems, Principles of Software Engineering**