

Pau Esmerats Fité

Terrassa, Catalonia, Spain |

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PROFESSIONAL SUMMARY

Software Engineer with 1+ year of experience in systems infrastructure, AI integration, and full-stack development. Proven expertise in React.js, Python, PowerShell automation, and AI/ML systems, delivering solutions that reduced operational workload by 50% and improved system reliability. Specialized in RAG systems, Progressive Web Applications (PWA), real-time integrations, and enterprise infrastructure optimization.

PROFESSIONAL EXPERIENCE

Systems & Infrastructure Engineer

Copcisa, Terrassa, Catalonia | Feb. 2024 – Present

- Developed PowerShell automation scripts that reduced IT technician workload by 50% through streamlined system maintenance and monitoring processes
- Built and deployed enterprise RAG (Retrieval-Augmented Generation) agent using Google Cloud Console and Gemini AI, improving internal documentation access and support response accuracy by 70%
- Implemented infrastructure upgrades and proactive maintenance protocols that improved corporate IT systems reliability and performance for 500+ users
- Reduced user support ticket resolution time by 70% through optimized troubleshooting workflows using Jira Service Management
- Managed critical system deployments and incident response procedures, ensuring 99.5% uptime for enterprise infrastructure
- Collaborated with cross-functional teams to design and implement scalable IT solutions aligned with business objectives and digital transformation initiatives

EDUCATION

Bachelor of Software Engineering

Universitat Autònoma de Barcelona, Bellaterra, Catalonia | Jul. 2024

- Graduated with specialization in software development, algorithms, and system design
- Relevant coursework: Data Structures, Database Systems, Software Architecture, Web Development, AI/ML Integration, and Agile Methodologies

Technology Bachelor

Escola Pia de Terrassa, Terrassa, Catalonia | Jun. 2021

- Technical foundation in computer science and engineering principles with emphasis on problem-solving and analytical thinking

SKILLS

Programming Languages: Python, JavaScript (ES6+), SQL, PowerShell, HTML5, CSS3

AI/ML & Data: RAG Systems, Gemini AI, Natural Language Processing, Vector Databases, Machine Learning Integration, Data Analysis

Frameworks & Libraries: React.js, Node.js, Express.js, RESTful APIs, WebSockets, Progressive Web Apps (PWA)

Cloud & Infrastructure: Google Cloud Console, Firebase, System Administration, Windows Server, Network Troubleshooting, IT Infrastructure Management

Tools & Technologies: Git, Jira Service Management, QR Scanner API, Telegram API, Email Automation, Real-time Data Processing

Databases: Firebase Firestore, MySQL, NoSQL, Vector Databases

Methodologies: Agile Development, DevOps Practices, AI/Machine Learning Integration, Enterprise Architecture, Problem Solving, Technical Documentation

CERTIFICATIONS

Cambridge C1 Advanced English Certificate | Cambridge I

PROJECTS

Enterprise RAG Documentation System

Python, Google Cloud Console, Gemini AI, RAG, Vector Databases, Natural Language Processing

- Architected and deployed enterprise-grade RAG (Retrieval-Augmented Generation) system for intelligent document search and support automation. Integrated Gemini AI with company knowledge base, reducing support ticket resolution time by 70% and improving knowledge accessibility across 500+ users

Stock Alerts PWA

React.js, Firebase, JavaScript, PWA, REST APIs, Telegram API, Real-time Data Processing

- Engineered and deployed full-stack Progressive Web App (PWA) with real-time stock market data integration, responsive front-end design, and intelligent push notification system via Telegram API for automated trading alerts and portfolio monitoring

Link: <https://stocks-alert-app-848e5.web.app/>

Cinema Management Platform (Bachelor's Thesis)

React.js, Firebase, WebSockets, Mantine UI, Node.js, QR Scanner API, Email Automation

- Developed comprehensive cinema management platform as official Bachelor's thesis with real-time seat reservation system using WebSockets, advanced admin dashboard, QR code ticket validation system, and customer reward program with automated email notifications

Link: <https://cinematfg.pauesmerats.com>