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PROFESSIONAL SUMMARY

Senior Full Stack Developer & Software Architect with 15+ years of experience in enterprise software development, building end-to-end web and mobile applications for SaaS, logistics, fintech, education and energy analytics. Strong focus on backend development, cloud architectures (AWS, GCP), relational and NoSQL databases, and high-traffic systems. Experienced leading the design and implementation of scalable platforms such as yearbook editors, warehouse management systems, financial portals and geospatial applications. Former university professor and scientific researcher with peer-reviewed publications. Passionate about clean code, security, performance, AI-assisted development and delivering products that real users depend on.

CORE COMPETENCIES

Full Stack Web Development, Backend Engineering, Software Architecture, SaaS & Multi-tenant Platforms, Cloud Computing (AWS, GCP), API Design (REST, GraphQL, SOAP), Database Design & Optimization, Event-Driven & Real-Time Systems, Payments Integration, Agile / Scrum, Technical Leadership & Mentoring, Research & Data-Driven Solutions

TECHNICAL SKILLS

Programming: JavaScript, TypeScript, Python, PHP, C#, C++, .NET Core

Frontend: React.js, Angular, Next.js, Vue.js, jQuery, HTML, CSS, Responsive Design, Tailwind CSS, Bootstrap, Flexbox, RxJS, Observables, Zustand, Redux, Ionic, React Native, Astro

Backend and APIs: Node.js, Express, Koa, Apollo, Laravel, Symfony, Yii, CodeIgniter, Django, FastAPI, Livewire, RESTful APIs, SOAP, GraphQL, Socket.io, Pusher.js

Databases: MySQL, MariaDB, PostgreSQL, Oracle, SQL Server, MongoDB, Redis, Advanced SQL, relational and NoSQL database modeling and optimization

Cloud and DevOps: AWS (EC2, S3, RDS, Lambda, Amplify, VPC, ECS, API Gateway, Route 53), Google Cloud Platform (App Engine, Cloud Storage, Firebase, Firestore), Docker, Kubernetes, Vercel, Railway, Linux server installation and administration (Ubuntu), Nginx, Apache, CI/CD pipelines (CloudFormation, GitHub, GitLab, Bitbucket, Jenkins)

Practices and Security: Software design and architecture (layers, services, modular monoliths, microservices), OOP, SOLID, DRY, KISS, problem solving, debugging, automated testing (unit, integration, e2e), cybersecurity best practices (OWASP, ISO 27001 mindset)

Tools and Data: Postman, Swagger / OpenAPI, JMeter, Pentaho BI, ETL / Kettle, npm, yarn, pnpm, bun, webpack, vite, Jira, Scrum, XP, RUP

Payments and AI: Stripe, Dwolla, PayPal, AI-assisted development and integrations with OpenAI,, Gemini (Google)

PROFESSIONAL EXPERIENCE

Software Architect and Senior Full Stack Developer
Entourage Yearbooks | Picaboo Yearbooks – Remote, United States
2022 – Present

- Lead architecture and full stack development of multiple high-traffic SaaS platforms: Picaboo Yearbooks, Entourage Yearbooks, EdoNext Platform, Creator Studio Pro, Edge Creator Studio and Store Shop Yearbooks.

- Design and implement scalable, cloud-native architectures on AWS (EC2, S3, RDS, Lambda, Amplify, VPC, ECS, API Gateway, Route 53) to support seasonal peaks and thousands of concurrent users.

- Build complex online editors and design tools using React.js, Next.js, TypeScript, Redux/Zustand, Tailwind, Laravel, Node.js, MSSQL, MySQL, DynamoDB, Redis and real-time technologies (Pusher).

- Modernize legacy systems (ASP.NET, C#, jQuery, MSSQL) by introducing REST APIs, improved caching and database optimization, reducing load times and production incidents.

- Collaborate with product, design, QA and operations in Agile/Scrum environments, participating in code reviews, technical decisions and continuous improvement of development workflows and CI/CD.

Full Stack Developer
TeamQ / 4elements / .thesynergygroup – Remote, Germany
2020 – 2022

- Developed logistics and fulfilment platforms such as YouSellWeSend and Wemalo (warehouse management), integrating online shops, warehouses and carriers.

- Implemented backend services and APIs using PHP (Laravel), Node.js (Koa, Apollo, TypeScript), MySQL and Redis, deployed on Google Cloud Platform.

- Contributed to Wemalo Connect API to integrate external e-commerce platforms (Shopify, WooCommerce) with logistics infrastructures.

- Built and maintained B2B/B2C frontends for DORFZAUN and Läderach using Vue.js, React and Magento, improving user experience for configuration, catalog browsing and internal processes.

- Worked closely with distributed teams, using Git, Docker, CI/CD and Agile practices to deliver features reliably for European customers.

Mobile Developer, Software Architect and Full Stack Developer (Freelance)
manuel.team – Ecuador / United States / Canada
2018 – Present

- Design and deliver end-to-end web and mobile solutions for banking, rewards, education and tourism, from requirements gathering and architecture to deployment and maintenance.

- Led the development of Givbux, a rewards and marketplace platform (Ionic, React, Laravel, Node.js, MongoDB, MySQL, Redis, AWS), integrating payments, users and merchants.

- Built Insotec financial portal and mobile app (Angular, Ionic, Laravel, MySQL, Redis, Firebase, Google Cloud Platform) enabling customers to manage products, loan requests and support online.

- Developed Bemte, a multi-app education platform (student, teacher, admin, backend) and event apps such as INER Congress using Angular, Ionic, Laravel, Firebase and Google Cloud.

- Created map-based and geospatial applications including Ecuador Travel Guide (ETG), Pide Un Taxi, SIE Ecuador and Lithostratigraphic Code Search with Angular/Ionic, Google Maps, Leaflet, GeoFire, Firebase and SQL backends

IT Analyst and Full Stack Developer
National Institute of Energy Efficiency and Renewable Energies (INER) – Quito, Ecuador
2015 – 2018

- Developed energy analysis systems, data marts and ETL processes using Pentaho BI, SQL and custom web applications to support national energy policy decisions.

- Built scientific tools such as Solar Chimney Simulator and TMY Generator (R, Python, Shiny, SQL) used in international research and publications.

- Created web and mobile platforms like SIE Ecuador (energy benchmarking), INER Congress and an Energy Efficiency Game using Ionic, Angular, TypeScript, Firebase and Google Cloud to disseminate technical information and promote energy awareness.

Professor and Full Stack Developer
University of Informatics Sciences (UCI) and Cuba Customs – Havana, Cuba
2007 – 2014

- Taught database systems, business intelligence and software engineering; supervised student projects and contributed to academic program development.

- Served as advisor on information security and migration to free/open-source software; administered GNU/Linux servers and Oracle/MySQL databases.

- Designed and implemented multiple customs information systems for the Cuban Customs Authority: data mart for decision-making, phonetic search engine, performance evaluation system, international transport and passenger information systems and other modules for the Integrated Customs Management System (Oracle PL/SQL, PHP/Symfony, HTML, CSS, JavaScript, Linux, Subversion).

- Co-authored software solutions with registered intellectual property and patents, applied to customs operations and decision-support processes.

EDUCATION
 Bachelor in Computer Science Engineering
University of Informatics Sciences (UCI), Havana, Cuba
2002 – 2007

Postgraduate Studies in Computer Science
 University of Informatics Sciences (UCI), Cuba
2007 – 2014

Completed several postgraduate programs in software engineering, systems architecture, databases and project management, including intelligent information systems, SOA architecture, agile methodologies, software testing, quality assurance, requirements management and process modeling.

ACADEMIC RESEARCH
Former University Professor and Scientific Researcher focused on Software Engineering, Fuzzy Logic and Information Systems. Co-author of peer-reviewed publications on solar chimneys, thermal comfort in social housing, building energy simulation and fuzzy logic applied to the Function Point method.