LUISA LAMPREA

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PRODUCT OWNER

Experienced product owner and engineer with over 15 years in the software industry, driving product vision and strategy across financial, accounting, education, transport, and healthcare sectors. Java-certified professional with a strong technical background in enterprise application development, system architecture, and API integration. Adept at managing the full product lifecycle, from requirement analysis and stakeholder collaboration to roadmap planning, sprint execution, and deployment. Skilled in Agile methodologies, backlog prioritization, and cross-functional team leadership to deliver high-value, customer-centric solutions. Passionate about problem-solving, mentoring, and continuous improvement to enhance product performance and business outcomes.

• Software Architecture • Data Analysis • Design Patterns • SOA • Object Oriented Programming • Project Lead • Project Management • Agile and Waterfall Methodologies • Cloud Computing.

Languages: Java, JavaScript, TypeScript
Web: HTML, Servlet, Devexpress
Web Services: XML, SOAP, API REST
Web/App Servers: Tomcat, IIS
Frameworks: Angular, Swing
Databases: MS SQL, PostgreSQL, Oracle BD
Design Patterns: Factory, Singleton, Adapter, Composite, Decorator, Facade, proxy, command, Iterator, Observer
SDLC: XP, Waterfall, V, Scrum
Tools: IntelliJ idea, Eclipse, Visual Studio, Visual Studio Code, GitHub
Platforms: Windows, UNIX
Big Data: Power BI, R Studio

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

PRESWILFA COLOMBIA - CAMPUSKEY, Bogotá, Colombia • 08/2018 – 07/2024
Family office focused on building sustainable business models that contribute to the well-being of society. The company is a holding of some companies like Saint George´s school and Campuskey (Software factory).

Product Owner
Led the construction of Campuskey and Marketkey applications.
- Designed and led the implementation of an integrated billing system using Angular, .NET, and MS SQL, automating periodic bill generation and seamlessly integrating with the National Tax Office.
- Established dynamic pricing rules based on client-specific parameters, eliminating manual data entry, automating tax compliance, and facilitating the generation of 2,000+ bills per month, improving accuracy and efficiency.
- Led the development of a multi-channel payment system, enabling real-time transactions and replacing a delayed third-party service, improving cash flow and customer satisfaction.
- Deployed a SaaS-based school management app on Azure, implementing a scalable cloud infrastructure with App Services, SQL Database, and Blob Storage for resilience and efficiency.
- Designed a modular Angular/.NET component system for K-12 admissions, enabling dynamic workflows with custom forms, payments, and automation. Reduced time-to-market from six to two months, accelerating feature rollout and enhancing user experience.
- Integrated real-time attendance tracking for K-12 schools, leveraging webhooks to sync data from school bus tracking and door access systems.
- Designed interactive DevExpress dashboards, enabling administrators to monitor student locations in real-time by status and grade, enhancing security and operational oversight.

Technologies Used: *Microsoft Azure, Angular 11, DOT NET, MS SQL, DEVEXPRESS.*

SAINT GEORGE´S SCHOOL, Bogotá, Colombia • 07/2015 – 07/2018
K12 private School.
Project Manager
Lead the implementation of the proprietary school management software.
- Developed a cashless school cafeteria system with Angular, .NET, MSSQL, and SSRS on Azure, improving service flow and processing 100 customers in 15 minutes per cashier.
- Modeled and deployed a clinical history and attendance registration system for a private K-12 school's internal medical center, ensuring full legal compliance while seamlessly integrating with payroll and rostering systems.
- Developed a transportation and activity management system for a K-12 school, improving planning, optimizing costs by 40% through better bus occupancy, and enhancing operational efficiency.
- Analyzed admission data with Power BI, linking early intervention to improved preschool outcomes, shaping educational policy.
- Created R-based data visualizations for K-12 analytics, highlighting insights on performance, attendance, and efficiency.

Technologies Used: *Microsoft Azure, Angular, DOT NET, MS SQL, SSRS, PowerBI, R.*

REDCOM DE COLOMBIA, Bogota, Colombia • 08/2011 – 12/2014
A company dedicated to comprehensive solutions in design, advisory, consulting, supervision, and project management in infrastructure, administration, health, education, basic sanitation, and engineering fields.
Data Professional / Project Management Professional
- Mapped and documented the data flow of the downstream supply chain for Colombia's largest oil company, ensuring a clear understanding of process dependencies and optimization opportunities.
- Reviewed and approved design documents submitted by the contractor during the detailed design phase for SAP and Aspentech application upgrades, ensuring alignment, coherence, and quality in enhancing the downstream supply chain systems.
- Led and coordinated the installation and configuration of MS Windows Server and HP hardware to reinforce the disaster recovery infrastructure, guaranteeing business continuity and operational resilience for the company's critical applications.

Technologies Used: *MS Office, SAP, Aspentech, HP, MS Windows Server.*

Older professional experience (08/1997 – 08/2011) can be provided upon request.

ACADEMIC PROJECTS

Maharishi International University (2025)
- **Register & Profile Application:** Developed the frontend for a cloud-based registration and session management app, supporting SignUp, LogIn, Logout, and profile image updates. Deployed entirely on AWS using S3 for React frontend, Lambda for backend, DynamoDB for user storage, and a private S3 bucket for images. Utilized React, JavaScript, DynamoDB, AWS.

- **Smart Pet Adoption:** Developed the backend for a pet adoption SPA using OpenAI embeddings to match pets with ideal homes. The Angular 19 frontend allows shelters to list pets and process adoptions, while users can browse pets and request AI-driven recommendations. Utilized TypeScript, Node.js, MongoDB Atlas, and OpenAI.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 04/2027)
Maharishi International University, Fairfield, Iowa

Key Courses: *Cloud Computing, Algorithms, Modern Web Application, Web Application Programming*

Master of Science in Computer Sciences and Engineering
Universidad de los Andes, Bogota, Colombia (04/1997)

Engineering in Computer Sciences and Progamming
Universidad de los Andes, Bogota, Colombia (06/1994)