# Pablo Andrés Gómez Ortíz

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## EXECUTIVE SUMMARY

Experienced technical leader with over 13 years of expertise in software development, architecture, and digital transformation across industries including financial services, retail, research, and education. Demonstrated success in delivering solutions, ensuring secure software development, and managing end-to-end projects from planning and estimation to execution and monitoring. Adept at building strong client and stakeholder relationships and leading cross-functional teams to deliver innovative, scalable, and cost-efficient solutions.

Mathematician and Computer Engineer, master in biomedical engineering, and specialist in software engineering. My technical expertise includes batch processing, web development, Cloud, and data management, with advanced knowledge of secure development practices. Fluent in General English (C1) and basic in French (A2), I excel at collaborating in diverse, multilingual environments to drive successful outcomes.

## TECHNICAL EXPERTISE

### CLOUD & ENTERPRISE PLATFORMS
- **Cloud Services:** AWS (SES, Cognito, ECS, S3, SageMaker, Forecast, Lex), Azure DevOps.
- **Container Orchestration:** Kubernetes, RedHat OpenShift.
- **CRM Platforms:** Salesforce (APEX, LWC, Aura, Visualforce).

### SOFTWARE DEVELOPMENT & ARCHITECTURE
- **Languages:** Python, JavaScript, Java, C.
- **Development Paradigms:** Declarative & Imperative Programming.
- **Frameworks:** React, Next.js, Node.js, NestJS, Express.js.
- **Mobile Frameworks:** React Native, Expo.
- **API Development:** REST, SOAP, Microservices Architecture.
- **Testing & Documentation:** Jest, Cypress, Swagger, Storybook.
- **Architecture:** SSR, SG, and CSR & App/page Router Architectures
- **Hardening Strategies:** GitHub Actions, Linting (ESLint, Prettier).

### DATA ENGINEERING & ANALYTICS
- **Platforms:** Snowflake, Diyotta, Hadoop, Apache Spark.
- **Databases:** SQL (PostgreSQL, MySQL, SQL Server), NoSQL (MongoDB, Neo4j).
- **Visualization:** Power BI, Tableau.
- **Big Data & Advanced Analytics:** FICO TRIAD, Performance Optimization.

### DevSecOps & CI/CD
- **Code Quality & Security:** SonarQube, Fortify, Checkmarx.
- **CI/CD Tools:** Git, Bitbucket, Azure DevOps, AWS CodePipeline.
- **Automation:** GitHub Actions, Dependabot, Hygen.

### PROJECT MANAGEMENT & COMPLIANCE
- **Compliance Standards & Methodologies:** PCI-DSS, HIPAA, ISO27000, ITIL Framework, PM3P.

# APPLIED PROFESSIONAL EXPERIENCE

## ➢ SOFTWARE ENGINEER SPECIALIST *(Full-Time)*
*Scotia GBS Colombia SAS | Canada, Latin America & Caribbean*
*November 2019 - Present*

Technical Specialist in Banking Technology Transformation, driving innovative solutions across Latin American, Caribbean and Canada financial technology ecosystems. Expertise in system integration, data engineering, and application modernization, delivering high-performance technological solutions that optimize banking operations and drive digital transformation.

### *Banking Technology Transformation Leadership*
- Lead technical initiatives for banking technology modernization across Latin America and the Caribbean, specializing in system integration, data engineering, and application modernization.
- Architected, develop and support production applications using JS, Java, Python, and SQL, ensuring high reliability and performance.

### *Key Technical Achievements*
#### System Integration and Optimization:
- Integrated FICO TRIAD Customer Manager with core banking systems to enhance credit risk analysis.
- Designed and implemented real-time data integration pipelines, processing over 1M+ daily transactions.
- Migrated legacy systems to modern architectures, achieving a 30% reduction in operational costs.

#### Automation and Efficiency Gains:
- Developed automated deployment pipelines using Azure DevOps, reducing release cycles by 60%.
- Streamlined data workflows leveraging Diyotta, Hive, and SQL SSIS, improving data processing efficiency.

#### Technology Ecosystem Management:
- Managed batch processing solutions using Control-M and CronJobs for critical banking operations.
- Developed and maintained Salesforce solutions to support customer relationship management initiatives.

### *Leadership & Collaboration Impact*
#### Team Leadership:
- Managed cross-functional development teams, providing mentorship and technical guidance.
- Championed the adoption of **Scrum methodologies**, enhancing team productivity and collaboration.

#### Stakeholder Coordination:
- Collaborated with external vendors and internal stakeholders to align development efforts with business goals.
- Provided technical advisory on system design, architecture, and performance optimization.

#### Integration Testing & Quality Assurance:
- Supported integration testing (IST) and quality assurance (QAT) processes, including validation, test execution, and troubleshooting.
- Ensured adherence to banking security standards throughout the development lifecycle.

- Delivered comprehensive banking solutions across regional operations, maintaining 99.9% system reliability.
- Supported banking infrastructure to enable secure and high-performance operations in Latin American markets.
- Established a robust development lifecycle using:
  - Jira for project planning, Confluence for documentation, and version control with Bitbucket, GitHub, and Azure DevOps.

## ➤ SOFTWARE DEVELOPMENT LEAD *(Remote Contractor)*

*RevStar Consulting (AWS Partner), Tampa, Florida*

*February 2023 – December 2024*

As a Software Development Manager, I lead the team of developers while actively contributing to the coding process and ensuring technical excellence. My role involves designing and implementing complex software solutions, managing development standards, and guiding the team through technical challenges. I was also responsible for setting technical directions, mentoring developers, and driving project success from both a managerial and technical standpoint.

*Key Responsibilities:*

- Lead and mentor a team of developers, providing technical guidance, resolving escalations, and ensuring high-quality software development.
- Actively code and contribute to development efforts, particularly in web and mobile platforms, while ensuring best practices are followed.
- Oversee architectural implementations, providing final approval for technical solutions and ensuring they align with project goals.
- Define and manage development, QA, and recruitment standards to enhance team productivity and maintain software quality.
- Facilitate engagement standards workshops, promoting a collaborative and efficient team culture.
- Drive recruitment efforts, ensuring technical talent is aligned with the team's needs through interviews and hiring processes.
- Handle project allocation and guide developers in their career paths, ensuring a balance between personal growth and project needs.
- Collaborate closely with stakeholders to deliver innovative, scalable software solutions, ensuring alignment with business goals.

*Key Technical Achievements:*

- Spearheaded and developed key features in cloud-native solutions, utilizing AWS services such as EC2 for compute, ECS for container orchestration, Lambda for serverless computing, SageMaker for machine learning, and Amazon RDS & Aurora for scalable database management.
- Contributed significantly to the development and delivery of multi-region AWS cloud architectures, cutting operational costs by 40%.
- Improved development efficiency by 70% through advanced DevSecOps practices, reducing deployment cycles.
- Played a pivotal role in delivering critical features for client projects while mentoring junior developers and driving technical standards across the team.

*Enterprise Cloud Transformation Leadership*

- Implemented AWS cloud architectures leveraging comprehensive service ecosystem
  - Multi-region solutions using EC2, Lambda, ECS, DynamoDB, SageMaker, Redshift

- o    Generative AI solutions with Amazon Bedrock for intelligent automation
- Developed standardized AWS solution blueprints, accelerating project initiation by 50%

*Leadership Impact:*
- Managed and mentored 15+ senior developers across complex enterprise projects
- Conducted strategic AWS Well-Architected Reviews for enterprise clients
- Implemented agile methodologies and cloud best practices across global teams

➤ PROFESIONAL IN RESEARCH PROJECTS (Developer and Data Engineer)

*Los Andes University*

*August 2018 - December 2019*

Technical innovator in biomedical engineering research, specializing in advanced data engineering, application development, and interdisciplinary project management. Bridged technological solutions with academic research, enabling data-driven insights and cutting-edge scientific exploration.

*Key Responsibilities:*
- Lead technical development for biomedical engineering research programs
- Architect and implement distributed data solutions across research initiatives
- Manage development team resources and project timelines
- Design and develop custom research-focused applications
- Establish data management best practices for research projects
- Provide technical leadership in cross-functional research environments

*Key Technical Achievements:*
- Designed and implemented distributed data solutions leveraging Hadoop ecosystem and cloud technologies
- Developed custom research applications using diverse technology stack including JEE, Python, R, and NodeJS
- Architected comprehensive data analysis solutions utilizing Python, R, Power BI, and Tableau
- Led end-to-end requirements analysis and solution design for multiple concurrent research projects

*Data Engineering and Analysis:*
- Developed robust ETL (Extract, Transform, Load) processing methodologies
- Implemented scalable data collection and storage strategies
- Created advanced data visualization and analytical frameworks
- Ensured data integrity and research data management best practices

*Leadership and Impact:*
- Managed development team resources across multiple research groups
- Facilitated technical collaboration between research teams
- Translated complex technical requirements into actionable research solutions
- Supported interdisciplinary research through innovative technological approaches

## ➢ JUNIOR IT SECURITY CONSULTANT

*IQ Information Quality*

*January 2014 - August 2015*

Emerging cybersecurity professional specializing in payment card industry compliance over the PCI-DSS, security assessments, and technical security solutions. Demonstrated expertise in implementing rigorous security standards and developing innovative protective measures for enterprise clients.

*Key Responsibilities:*
- Support  PCI-DSS (Payment Card Industry Data Security Standard) certification projects
- Conduct comprehensive security assessments and compliance evaluations
- Perform in-depth software and hardware security assessments
- Develop and implement security hardening strategies
- Provide technical guidance for security remediation and improvement
- Execute detailed documentation and reporting of security findings

*Key Technical Achievements:*
- Executed comprehensive PCI-DSS certification assessments for enterprise clients
- Conducted critical on-site software and hardware security evaluations
- Performed meticulous source code security reviews ensuring compliance with PCI-DSS standards
- Developed custom security solutions using JavaScript, Python, and Java

*Security Implementation and Compliance:*
- Implemented advanced security hardening processes for databases and applications
- Identified and mitigated potential security vulnerabilities
- Supported organizations in achieving and maintaining critical security certifications
- Created detailed security assessment reports and remediation recommendations

*Technical Security Solutions:*
- Designed and implemented custom security tools and scripts
- Analyzed and resolved complex security challenges
- Provided actionable technical guidance for security improvements
- Supported enterprise clients in enhancing their overall security posture

## ➢ IT PROJECTS ADMINISTRATOR & SUPPORT

*Creative Media Design*

*2013 - 2015*

Directed technology operations and led enterprise-wide IT initiatives.

*Key Achievements:*
- Established and maintained institutional technology standards and security protocols
- Managed customer data security compliance and database administration
- Directed web development projects using HTML5, CSS3, and PHP
- Orchestrated technology infrastructure upgrades and maintenance
- Implemented data center operations according to industry standards
- Managed vendor relationships and IT service contracts
- Developed and maintained disaster recovery and business continuity plans

# PROFESIONAL TEACHING EXPERIENCE

A versatile and passionate educator with over six years of comprehensive teaching experience in computer science, specializing in cutting-edge technological domains. Demonstrated expertise in curriculum development, research mentorship, and bridging academic learning with industry-relevant technological skills across multiple prestigious institutions. Skilled in delivering advanced courses in distributed systems, big data analytics, programming, mathematical modeling, entrepreneurship, and emerging technologies, with a focus on hands-on learning, research methodologies, and practical technological implementation.

## ➢ FULL-TIME PROFESSOR

*Corporación Universitaria UNIMINUTO*

*January 2020 - December 2022*

Led advanced computer science curriculum development and delivery, specializing in database systems, big data analytics, and mathematical modeling.

*Key Contributions:*
- Developed and delivered graduate-level courses in distributed systems and advanced analytics
- Supervised multiple research projects in machine learning and data engineering
- Created industry-aligned curriculum incorporating real-world case studies and hands-on projects
  Mentored students in technical project implementation and research methodology

## ➢ FULL-TIME PROFESSOR

*Universitaria UNIAGUSTINIANA*

*July 2019 - December 2019*

Led entrepreneurship and innovation initiatives while providing technical guidance for student projects.

*Key Contributions:*
- Designed and led technological startup projects using agile methodologies
- Provided technical mentorship for student projects in React, JEE, and AngularJS
- Implemented Business Model Canvas and Customer Development methodologies
- Developed technology marketing strategies for student ventures

## ➢ FULL-TIME PROFESSOR

*Universidad INCCA de Colombia*

*January 2013 - December 2017*

Delivered comprehensive computer science education focusing on programming and algorithmic analysis.

*Key Contributions:*
- Developed curriculum for programming courses in Python, R, Java, and C
- Led mathematical modeling courses using MatLab and Python
- Supervised student research projects in artificial intelligence
- Integrated industry-standard tools and practices into curriculum

# ACADEMIC BACKGROUND

➢ Master of Science in Biomedical Engineering

*Universidad de los Andes, 2020*
**Focus**: Mathematical Modeling and Statistical Analysis

➢ Specialization in Software Engineering

*Universidad INCCA de Colombia, 2011*

➢ Bachelor of Engineering in Computer Information Systems

*Universidad INCCA de Colombia, 2010*

➢ Bachelor of Science in Mathematics

*Universidad Nacional de Colombia, 2019*

# CERTIFICATIONS & TRAINING

- AWS Academy Data Analytics & Machine Learning Foundations Educator Certification
- Green Belt in Secure Development (Secure Code Warrior) - Multiple Languages
- Cloudera Certified Data Analyst
- Salesforce Platform Developer 1 (In Progress)
- Business Model Canvas & Customer Development Certification
- Advanced Pedagogical Strategies Diploma

# ACHIEVEMENTS

- Full scholarship recipient for graduate research at Universidad de los Andes
- Winner, National Research Contest (Ministerio TIC and COLCIENCIAS)