

Nick Cobos

Senior Full Stack Developer, Tech Lead, Scrum Master, Product Owner, DevOps, +15 years of experience

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- portafolio.dexsys.net • <https://www.linkedin.com/in/nickinfinity/>

Skills

Technical: • PROGRAMMING LANGUAGES: Java, Python, JavaScript, PHP, Rust, C#, C • FRAMEWORKS: Spring, Spring Boot, PyTorch, FastAPI, React.js, Node.js, Next.js, Angular, Vue.js, Laravel, Symfony, Axum • DB Engines: Oracle, Microsoft SQL Server, PostgreSQL DB, Maria DB, MySQL, SQLite, Mongo DB, Apache Cassandra • Virtualization/Containers: Kubernetes, Docker, Docker Swarm • Clouds: Google Cloud, AWS, DigitalOcean, Vercel • Queues: RabbitMQ, Apache Kafka Oracle Transactional Event Queues (TEQ) • DevOps: CI/CD, Pipelines, Git, Jenkins, Github Actions, SonarQube, Unit testing • Principles: Clean Code, KISS, SOLID, CAP theorem, DRY • Testing principles: Whole-team approach, Test-Driven Development (TDD), Coverage-based Prioritization • INFRASTRUCTURE AND OTHERS: Nginx, Redis, N8N, Elastic Stack (Elasticsearch + Kibana + Logstash) • Project Admin tools: Azure DevOps, Atlassian suite (Jira, Confluence, Jira Service Manager, Jira Product Discovery)

Language: Spanish - native, English - proficient (bilingual)

Experience

MEMBO Inventos y soluciones S.A.S

Project Manager - Tech Lead

Medellin, Colombia
(semi-remote)
Oct 2024 – Sep 2025

- Joined this technology startup developing hardware and software products.
- Coordinated and helped mentor three cross-functional teams: Robotics/Electronics, Software Development, and AI/Computer Vision for design and execution of a robotic system that assisted workers to cut and collect plant propagules under precise and ergonomic conditions while increasing efficiency using robotic precision scissors and a vacuum extraction/storage module that enabled real-time AI classification of propagules collected.
- Supervised the whole lifecycle of AI object detection models from training and optimizing models to deploying them to classify in real-time crops and plant cuttings starting with rose propagules. Actively participated in the data collection, labeling, and training workflows while constantly iterating on the model architecture and tuning hyperparameters for production.
- Engineered a Rust gateway for high-speed orchestration, auth, and balance loader between the pods using Axum.
- Adopted Agile/Scrum tools and responsibilities to manage the backlog, sprints, and cross-team collaboration ensuring teams were moving forward and prototypes were on track to be delivered on time.
- Evaluated logs using Elastic Stack and Performed High availability (HA) task queues with RabbitMQ
- Working directly with product stakeholders to define milestones, following a 'test-driven development' approach, deployment strategies, and successfully aligning increments with core business and field operation objectives.
- <https://www.instagram.com/membo.pro>

**Stellar (Crowd Content
Media Group)**

Senior Full Stack

Developer - DevOps

Victoria, BC - Canada
(remote)

Jan 2022 – Sep 2024

- Formulated and executed a service-based architecture (a more compact version of a microservices structure, where a 'service' integrates multiple microservices that are related) using Kubernetes to advance a large-scale legacy monolithic application to a newer architecture that would allow for its reengineering into a scalable and maintainable structure utilizing integrated service clusters that collect related microservices to reduce complexity and overhead for maintenance tasks.
- Assembled the backend in Python using FastAPI and PHP with Laravel, and refreshed the frontend using Angular (SSR) and Web Components, achieving a level of modularity and maintainability enhancements, and gains in rendering performance for content management workflows, more than 75% increase in response time.
- Established CI/CD pipelines for Kubernetes clusters that included orchestration, monitoring, testing and scaling resource infrastructure for development and production, using an automatic scaling and descaling approach when peaks of activity are or aren't present reduces overall server cost by 25% per year.
- Deployed into Digital Ocean and AWS (S3, EC2) clouds and used CloudFlare as CDN and secure gateway.
- Architected a chatbot system that utilized an AI (GPT-4o agents) as a specialized chatbot that would automatically generate SEO-optimized content briefs for a client that needed professional web content writing.
- Enhanced the chatbot pipeline to include client demographics and previous content data that would further refine the relevance, tone, and quality of the generated briefs, including title, meta-description, and SEO-friendly key term recommendations.
- Presented tangible improvements in bulk content generation efficiency for high-quality SEO-smart content and satisfaction from clients because professional writers and Search Engine Marketing specialists who used the system were able to create contextually relevant, keyword-smart content quickly with a reasonable degree of quality.
- Cooperated with multidisciplinary teams to define standards for infrastructure including cluster instantiation, short- and long-term optimization, application and service maintenance, as well as standards behavior that supported availability and performance.
- Prompt engineering.
- <https://www.stellarcontent.com/>

- Heinsohn is a technology company in Colombia that develops enterprise software and IT infrastructure solutions for government agencies and financial entities. Two distinct projects/clients were executed:
 - *Secretaria de transito de Bogota (Bogota Transit Department)*
 - Built and deployed a web application made with Angular with a Java-based back-end using Spring Boot to allow users to review traffic fines and offenses by license plate.
 - Incorporated a secure online payment module with a Oracle database DB connectivity to facilitate payment of traffic reports.
 - Optimized the performance, reliability, and scalability of the system through improved API architecture, asynchronous data handling, and AWS scaling policies.
 - *Alianza Fiduciaria (Trust Fund)*
 - Devised and deployed a biometric authentication platform to enable clients to conduct fiduciary and financial transactions using mobile devices through facial recognition, OTPs, and other multi-factor authentication methods.
 - Constructed a Kubernetes-based microservices architecture to achieve modular scalability, system redundancy, and meet the security standards in the financial industry.
 - Deployed a platform for digitally signing contracts that incorporated DigiCert digital certificates and real-time validation through Alianza Fiduciaria's (Trust Fund) trust center that supported legally binding contracts establishing digital signatures recognized as compliant with international standards of trust and certification. This platform reduced company expenses by more than 250,000 USD per year in third-party costs for secure digital signing of PDF documents.
- <https://www.heinsohn.co/>

- Founded and directed DEXSYS, a software development startup that delivered custom-built software, e-commerce platforms, and software solutions for multiple industries like education, military, coworking, and tourism.
- Oversaw software architecture, full-stack development, and DevOps on both local and international projects.
- Produced and engineered a proprietary suite of software (N2 + N2 Content) specifically for study-abroad agencies in Colombia, which integrated a custom CRM and CMS to manage student applications, partner institutions, and multilingual marketing content.
 - Built on Java EE with JavaServer Faces (JSF) for the core logic layer and main UI and PHP for the front-end generation layer for the public part, offering a native jQuery + AJAX interface providing a desktop-like, responsive user experience within a web-browser interface.
 - Used native Schema.org structured data to ensure advanced indexing within search engines, improving SEO visibility and structured data for fast indexing and easy navigation inside the search.
 - Supplied agencies with multiple SEO-enabled, content-driven websites with advanced tools that allow them to create content and implement SEO techniques.
 - Delivered software/digital solutions for clients such as Global Connection, Babel Studies, and Trotamundos, improving their digital presence, conversion rates, and operational workflows.
- Created corporate and e-commerce websites using Joomla with VirtueMart, then later WordPress with WooCommerce, leading clients to secure e-commerce and payments systems with SEO-friendly online platforms.
- Worked with Stair Cargo Inc. to assemble a corporate site adding also stock inventory management and quotation simulation tools that met U.S. Department of State compliance requirements for aerospace and defense equipment transactions, increasing efficiency in inventory and pricing handling by more than 150% per year.
- In the later years of the company, executed full-stack projects using Node.js, React, and MongoDB.
 - Provided solutions for MEMBO Inventos y Soluciones S.A.S. (Colombia), producing access-control software for Tinkko Coworking and Flex Spaces that permitted users to enter the facility via RFID cards through a web-based, real-time authentication and management system.
- Formulated a new software that combined N2 and N2 Content with an e-commerce platform to sell tourism packages and cruises online, investing a large part of the company assets and managing to attract investors, creating a new company with that purpose called Celeste Travel, and acquired the domain celeste.travel in late 2019.
- Managed DEXSYS successfully for many years until the COVID-19 pandemic in early 2020, which halted tourism and international studies, leading to the gradual closure of the company.
- <https://web.archive.org/web/20190124094756/https://dexsys.net/>
- <https://babelstudies.com/>
- <https://trotamundos.com.co/>
- <https://staircargo.net/>
- <https://tinkko.com/>

Global Connection

*Full Stack Developer -
WebMaster*

Bogota, Colombia
Jan 2010 – May 2012

- Conceived and constructed a specialized CRM platform to track student leads, client files, and institutional relationships, improving workflow efficiency and conversion tracking across the agency.
- Designed and assembled a multi-currency quote simulator that allowed counselors and clients to check program pricing (courses, accommodations, and plane tickets) in U.S. dollars, Colombian pesos, and the currency of the destination country of the program. The software dynamically accounted for exchange rates and pricing based on the destination of the academic program and the day of the quoting in real time using an exchange rates API.
- Redesigned and modernized the agency's website, improving usability, visuals, and overall interactivity using jQuery UI for new web components and widgets.
- Added interactive Web 2.0 components such as social tools like inline Facebook comments, ratings using Facebook likes and dynamic content updates using AJAX and jQuery trends that led web development at the time.
- Received national recognition from Colombia's Ministry of Information Technologies and Communication (MinTIC), placing 2nd in their "Web 2.0" competition in 2010 for innovation, and levels of user interactivity.
- Collaborated with partners in marketing and the academic department to ensure the technical infrastructure was consistent with institutional objectives and necessary international partners requirements.
- <https://www.globalconnection.com.co/>

Early Tech Experience

*Freelance Web & IT
Services*

Bogota, Colombia
Jul 2005 – Dic 2009

- Entered into technology as a teenager through the Cisco Networking Academy, learning networking and receiving training in electronics and computer maintenance through various community and online classes.
- Assisted family members until an accident damaged an expensive CPU, bending the pins, then repaired it by carefully straightening each pin using very small tweezers.
- Provided IT support, computer repair, and maintenance support to local companies, clients of my father (he was a mechanical technician for flexographic machines). worked with those small businesses with their POS systems, some general office computers and general infrastructure.
- Constructed simple websites for some of those clients of my father, experimenting with Flash to create animations and menus, and later integrating basic PHP functionality to store or process contact forms.
- Built several personal websites during teenage years featuring anime and videogame reviews, small forums, open-source software, and freeware downloads, then attempted to monetize the content.
- Integrated Google AdSense into those pages (using my mother's AdSense account because I was under age at the time) and it was with the pay-per-click and pay-per-impression advertising, received the first \$100 USD, it took two years to complete that amount
- From those experiences, established solid technical fundamentals in website production, Linux/Windows maintenance, networking basics, and user support that laid the foundation for a professional full-stack and DevOps career.

Education

- - 2025 Professional Scrum Product Owner I:
<https://www.credly.com/badges/18c78881-7714-44a3-8b7d-1a5e1d6287be> validate:
<https://www.scrum.org/certificates/1225485> use the email: nick.dexsys@gmail.com
- - 2025 Professional Scrum Master II:
<https://www.credly.com/badges/f2b12901-dcab-4b9a-9ff4-34bbc90e5f07> validate:
<https://www.scrum.org/certificates/1194417> use the email: nick.dexsys@gmail.com
- - 2025 Professional Scrum Master I:
<https://www.credly.com/badges/549090d9-cca7-4ca9-ae2b-7a90e2f32f50> validate:
<https://www.scrum.org/certificates/1191742> use the email: nick.dexsys@gmail.com
- - 2016 IT.1.1x: Introduction to Programming with Java: Starting to Code with Java, Universidad
<https://courses.edx.org/certificates/7610d141fc134aa28f19e1e4b635d53b>
- - 2015 COMP102.1x: Introduction to Java Programming, The Hong Kong University of Science and Technology
<https://s3.amazonaws.com/verify.edx.org/downloads/f011699363ae435aad01b76161742457/Certificate.pdf>
- - 2015 6.00.1x: Introduction to Computer Science
<https://s3.amazonaws.com/verify.edx.org/downloads/99bd42fab1a74577b06ffb6b792c149d/Certificate.pdf>
- - 2009 Databases and systems administration, Sena Virtual – SGVC20091371190. 40 Hours.
- - 2009 Web Developing with HTML & JAVASCRIPT - Sena Virtual – SGVC20091195189, 40 Hours.
- - 2014 EC (European Center) International English Certificate – High intermediate - Manhattan N.Y.
- - 2009 CCNA EXPLORATION - Bogota Colombia
- - 2008 High School, Colegio Tecnisistemas - Bogota Colombia
- - 2008 Object Oriented Programming course, Fundación Universidad Panamericana - Bogota Colombia
- - 2008 CCNA Ver 3.1.1, Cisco Networking Academy - Bogota Colombia
- - 2005 Basic electronics – Maintenance of electronic devices - Bogota Colombia

Interests

Interests: • *Electronics:* Enjoy building ‘smart’ circuits using Raspberry Pi and Arduino boards (smart home IoT devices) to control other devices and as a project with my teenage daughter, repair cell phones (only replacing the display and old internal batteries), assembling PCs, “fixing’ other electronic appliances (often destroying them, but learning in the process) • *VIDEOGAMES/GAMER:* lately I’ve been playing Hollow Knight Silksong, League of legends. I prefer single-player games but I also like to play online with my daughter • *Others:* Linux Arch, NeoVim as an IDE, “ricing” Linux
Learning right now: I’m getting some new certifications in Scrum Nexus (Scrum of Scrums), Kubernetes Administrator (CKA) and ISTQB – Foundation

References

- **Membo Inventos y Soluciones:** Alejandro Goetz, CEO, [+66 96 783 4404](tel:+66967834404), ayudame@membo.pro Düsseldorf Germany
- **Stellar Content:** Matt Martin, CTO, matt.martin@stellarcontent.com, Victoria, B.C. Canada
- **Heinsohn Business Technology:** Diana Mora, PO, [+57 300 3607656](tel:+573003607656), dmora@heinsohn.com.co Bogota, Colombia