

Contact

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(LinkedIn)

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Top Skills

Domain Modeling

Test Driven Development

Infrastructure Solutions

Languages

Spanish (Professional Working)

English (Native or Bilingual)

Mark Bonano

Senior Engineering Manager, AI Native Developer Experience @ Meta | Expert in technical solutions to multi-billion-user product verticals

New York City Metropolitan Area

Summary

A seasoned technology leader with over six years at Meta, specializing in building AI-powered platforms and workflows to support product development across Instagram, Facebook, and WhatsApp. With expertise in domain modeling, test-driven development, and infrastructure solutions, the focus has been on creating scalable systems that enable seamless real-time changes for over a billion users. Committed to delivering impactful, innovative solutions, efforts have centered on empowering technical teams to develop next-generation AI applications and tools. Passionate about driving collaborative initiatives that enhance developer experiences and transform complex technical challenges into actionable solutions in dynamic environments.

Experience

Meta

Senior Engineering Manager, AI Native Developer Experience, Platforms & Tools

March 2020 - Present (6 years 3 months)

New York, NY

- Defined AI acceleration strategy for mobile and web devs across Meta. Influenced VP-level decisions on technical architecture, platform adoption and product release acceleration goals.
- Led and grew AI Apps DevX engineering teams (10->45) across NORAM & EMEA building new AI tools & workflows for internal customers across Meta's product verticals (multi-billion-user product verticals - Instagram, Facebook, WhatsApp).
- Panelist for Mobile Development @ JetBrains/Gradle dev events. Speaker at internal Meta dev summits (web & mobile)

Deliverables Included:

- Launched the internal platform for fast AI-powered web app development built on next.js, with a focus on data security of agentic workflows
- Shipped first-of-its-kind agentic verification platform to develop native Android/iOS apps with AI, goal of shipping product features in half the time across all consumer-facing surfaces
- Led GTM strategy for AI-native web & mobile dev tools serving multi-billion-user product verticals - cross-functional teams of SWE / PE / Solutions Architects / Data Scientists to understand/meet the complex needs of large & fast-moving product organizations
- Key driver and decision maker of cross-org collaborations needed for company-wide shift to AI workflows, including security, privacy, compliance, governance, agentic platform, ML research, core infrastructure & product orgs.
- Maintained underlying infra to push real-time web tier changes and 1 billion+ customers

Uber

Engineering Manager, Infrastructure Observability

August 2018 - March 2020 (1 year 8 months)

Greater New York City Area

- Grew the logging platform team, with the mission to transform how observability events are collected, stored and queried at Uber scale.
- Accountable for hiring, prioritization, strategic vision, roadmaps, OKR's & people mgmt.
- Partnered with senior leadership to find problem areas and opportunities that could be addressed through innovations in Uber's observability platforms.

Bloomberg LP

Connectivity and Integration: Real-Time Messaging Lead

December 2016 - August 2018 (1 year 9 months)

Greater New York City Area

- Responsible for building and managing real-time messaging engineering team
- Define strategy and technical roadmap for real-time messaging and connectivity including enterprise tooling and technical support strategy
- Partner with business leaders to explore innovate ideas and solutions to expand product offerings and better address client needs

Scholastic

Technical Director, Integration & Messaging

June 2014 - December 2016 (2 years 7 months)

Greater New York City Area

- Responsible for building and leading cross-functional agile engineering teams tasked with the responsibility of developing shared infrastructure and common services in support of system and product integrations, development and analytics.
- Responsible for architecting a self-service integrations model that empowers teams to develop integrations strategies relevant to their respective domains. (Stack: WSO2 API Manager, ESB & Identity Server, ActiveMQ, Kafka, ElasticSearch, Kibana, Hadoop & Cassandra)
- Responsible for architecting an analytics platform to support the aggregation, analysis and reactive processing of team, system and data metrics. (Stack: Scala, Akka, Akka Reactive Streaming, Storm, Redshift, InfluxDB, Grafana)
- Responsible for architecting and developing data and system APIs, consumed by client applications and internal orchestration services, in a wide variety of protocols and messaging models. (Stack: Scala, Akka, Spray, SBT, MongoDB)
- Responsible for serving on the Architectural Team that defines organization-wide Engineering Patterns and Best Practices.
- Responsible for assisting in the design and development of the Site Reliability Engineering Strategy, which includes static code analysis, SDLC management, build process, performance testing and performance management governance.

SmartPath Labs

Managing Partner / Head of Cloud Computing

February 2013 - June 2014 (1 year 5 months)

Westport, CT

- I am a founding partner and senior consultant at SmartPath Labs where I head Platform Development and Cloud Solutions Architecture. Led pre-sales solutions engineering & architecture for external clients (Mohegan Sun, startups).

- As the head of Platform Development, I have architected and developed a multi-tenant platform, on node.js, that supports completely autonomous running environments by leveraging containerization offered by the Linux kernel (LXC). The SmartPath platform runs on any cloud or bare metal infrastructure that supports Linux and offers the ability to migrate across IAAS providers and offers monitoring, log aggregation, process healing and automated scale.

- As a Senior Consultant my responsibilities vary across projects. I have been a Technical Architect and Team Lead for a variety of start up companies. In this capacity I have defined infrastructural requirements (IAAS Providers, infrastructural assets like load balancers, servers, storage, etc.), led network, logical and process diagraming and led infrastructural development, managing small teams of developers (usually 3 or less). These environments have been built, primarily, on node.js, run on the SmartPath Platform and heavily utilize document-oriented database technologies (MongoDB and CouchDB).

- I have also served as a Senior Integrations Consultant, most recently for Mohegan Sun, where I have architected and engineered orchestrations, built predominantly atop Mule ESB, that integrate autonomous sub-systems of a given infrastructure. These sub-systems have ranged from services that support their own APIs to proprietary RPG applications, where screen scrapping was required in order to share valuable data.

- I served as Front-End Architect for various start-up companies. The majority of the developed web applications were built on angularJS and supported high levels of user interaction and 3rd-Party API integrations.

Chazmar Solutions LLC

Applications Architect

January 2008 - June 2013 (5 years 6 months)

- Served as technical advisor and solutions architect across client engagements — scoping requirements, defining architectures, and leading implementation for startups and mid-market companies.

- Led design, implementation and GTM consultation across multiple facets of application development, including Web, Mobile, Infrastructural and Cloud development.

deets, Inc.

Chief Engineer

2011 - February 2013 (2 years)

- As Chief Engineer, I designed and developed the server-side infrastructure that supports various client applications. This effort included:
 - Infrastructural design on AWS: Load Balancers, EC2 Instances, RDS Instances and S3 Storage as well as SES, Security Group management, Firewall management, Instance Configurations (on Linux instances) and other security concerns.
 - Domain Modeling and Development: Designed and developed a distributed platform using standard TDD and DDD principles. Services endpoints were developed in node.js, utilizing restify, socket.io and stomp modules. Domain Services were developed in Java using Spring (IoC and AOP) and Mule (Orchestration, AOP). MySQL and MongoDB data stores were utilized.
 - Continuous Integration and Build Processes: I configured and managed Team City as our CI Server. Java projects (Server-Side and Android) were built using Maven, which integrates easily into Team City. iOS projects required custom Build Agents to automate test suite execution, compilation and deployment.
 - Team Management: I lead daily stand ups and supervised the entire engineering staff. We supported an Agile Development process in both Scrum and Kanban styles. I tracked velocity (w/ Scrum) and team productivity and managed all feature development.
 - Web Application Development: Designed and developed the web client using Backbone, require, underscore and jQuery libraries. JavaScript compilation was done using the Google Closure compiler.

BLR

Senior Applications Developer / Technical Lead

October 2007 - April 2010 (2 years 7 months)

Old Saybrook, CT

- Lead developer of various large-scale B2B applications written in Java and C#. A major contributor to the architectural design and development of a proprietary framework leveraged by most in-house application. Technical liaison to project management, client management and IT with responsibilities that included the complete management of the software development lifecycle

working closely with small groups of developers, either in-house or overseas, paying close attention to source control, documentation, automated tests, architectural principles and time considerations.

- Lead the training and implementation of structured automated testing (emphasizing TDD) across the entire development team. Introduced a variety of technologies including Subversion, NUnit, Rhino Mocks and ReSharper. Led a series of trainings and headed the subsequent implementation of various GoF and DDD design patterns across the enterprise.
- Migrated legacy applications, written in Java, ASP and ColdFusion, over to the .NET framework and served as lead developer for those projects.
- Day-to-day responsibilities included mentoring junior developers, simplifying existing API's to increase user productivity, collaborating with other senior developers to define technical standards and best practices for the development team and maintaining the quality of source code and overall software design.

Connecticut Bar Association
Senior Applications Developer
2005 - 2007 (2 years)
New Britain, CT

- Lead developer of all websites and web-based applications across the full software development lifecycle. I also managed all outside development and integrated such development into the large application infrastructure. All projects were ASP.NET /C#/SQL Server.
- Integrated various sites and applications within an established community of third-party applications used to manage the business.
- Developed all other aspects of their database architecture including jobs responsible for data-scrubbing, views/stored procedures used cross-application and indexing for query optimization.

Education

Yale University
Master of Philosophy (M.Phil.), Philosophy of Religion · (2003 - 2006)

Fordham University

BS, Computer Science · (2000 - 2003)