Gretchen Boria, PhD

Technical Product Manager, AI & Enterprise Systems

Product leader with 10+ years of experience shipping complex, data-intensive software products from 0-1. Proven ability to lead cross-functional teams in developing scalable AI/ML frameworks, agentic AI, and user-centric enterprise platforms. Excels at translating ambiguous business problems into actionable product roadmaps and technical requirements.

Work Experience

Product Manager/Owner   Jan 2025 – June 2025

Labcorp (6-mo contract via TEKSystems)   Remote- CA

- Led product strategy and delivery for a new suite of products within Global Trial Connect™, a platform serving over 300,000 enterprise users, resulting in accelerated multi-stage workflows and improved operational efficiency.
- Collaborated with engineering to architect scalable frameworks & 10x tooling, improving development velocity and enabling portfolio expansion into new product areas.
- Managed and prioritized the product backlog for two high-priority MVPs, translating user research and data insights into ~200 user stories that directly addressed user pain points and business goals, reflecting user research outcomes in data-driven roadmaps
- Partnered with technical leads to map data lineage & modernize data infrastructure
- Drove the vision and secured VP-level buy-in for an internal PM AI Agent designed to automate the generation of epics and user stories from UX designs, projecting a significant reduction in time-to-market for new offerings
- Spearheaded technical discovery/strategy for object-based data ontology, partnering with architects to modernize infrastructure & improve data flow across systems

Product Manager   Dec 2023 – Dec 2024

LabLynx, Inc. (LabLynx LIMS)   Remote- CA

- Directed product development for a SaaS community platform with 12+ apps, defining the integration strategy for best-in-class AI/ML models to enhance user capabilities
- Identified best AI/ML models & integrations for cloud community instance (12+ apps)
- Prototyped & validated 3 new proofs-of-concept for platform expansion, defining the GTM strategy for new technical market.
- Authored detailed product and technical requirements for a new BioTech platform, ensuring compliance with complex information security and data integrity standards.
- Designed and shipped an AI chatbot leveraging a ~2,000-article knowledge base, improving user onboarding and reducing support ticket volume

Head of Product, Founder/Owner   Nov 2022 – Present

Bawa Tech Club LLC

- Defined the product vision and technical requirements for a flagship AI imaging platform, translating complex machine learning concepts into an actionable roadmap for artifact detection algorithms
- Conceptualized and designed the user interaction model for data collection and management systems, ensuring data integrity & seamless device interoperability
- Created coworking space, tech hub & startup incubator for tech/AI project collaboration

General Information

San Jose, CA (SF Bay local, US remote)
US Citizen · Immediately Available
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Skills & Tech

Product Management

Strategy & design · URS · Story mapping · Systems Architecture Agile/Jira · UI/UX Wireframing

Digital Transformation

XMS · Cloud · · Migrations · BPC

Quality Management

CSV/UAT · Statistical Inference · FDA · IT GXP · CAPA/RCA · 21CFR Part 11

Software/Tech

Python (beginner) · Figma · JQL GCP · Bolt · AI IDEs · VR/XR· MCP AI Ecosystems · Amazon Bedrock

Information Systems

XMS/LIMS/QMS · Audit Management · Data Management · Integrations

Education

University at Albany, SUNY

PhD, Environmental Health Sciences,

Biomedical Sciences

University at Albany, SUNY

B.S. Biology/Pre-Med

Certifications and Credentials

Google Cloud Fundamentals; GCP Networking & Security

Stanford - Statistical Learning in Python

Veeva Vault, Veeva QMS & QualityDocs

NY Clinical Technologist License

FDA Awards – clin. testing, cross-cutting

Jan 2022 – Oct 2022

SEM - Quality Product Engagement Manager

Veeva MedTech, Veeva Systems, Inc.   Pleasanton, CA

- Scoped multiphase product implementation, elicited user requirements & translated complex quality system needs of Life Sciences Pharma/MedTech industry leaders (CVS Health, Abbott, Google Health), driving $5M in implementation services sales
- Architected MedTech workflows & Veeva Vault tool configurations, applying object models, field mapping, data cleaning, and ETL processes in Salesforce-based platform
- Conducted rigorous testing of system configurations and customizations, including PQ and UAT, to ensure quality system workflows met client requirements and regulations

Head/Director of Product, Founder/Owner   Jan 2018 – Jan 2022

Savvyneer, LLC/ Bawa Club Tech

- Shipped innovative, modern bespoke and custom software products 0-1, and specialized in designing management systems (XMS)
- Directed a well-equipped team composed of: developers, graphic designer, UI/UX designer, software engineer & a software architect to build large scale products: replatformed a global printing website with AR tools, a smart LIMS & integrations
- Launched a Sales & Tech Support platform for managing major gifts to 800 public schools from donors such as Bill & Melinda Gates Foundation, by delivering an interactive map & smart purchase recommendations for a State-funded program to manage Sales & Support of school equipment/supplies donations & recipient matching
- Defined and executed go-to-market strategies for SaaS and licensed products, driving user acquisition, engagement, and retention through data-driven market insights
- Managed development and scaling of .NET applications on AWS cloud infrastructure (EC2, S3, RDS, Route 53) to support a growing user base & increase availability
- Led digital transformation of lab processes, architecting workflows for modular LIMS
- Headed the product strategy for an AI-powered medical imaging feature to enhance diagnostic accuracy by automatically detecting artifacts in brain MRI scans. Defined the core functionality for an "MRI Signal Filter," outlining requirements for image segmentation and pattern recognition to identify motion blur, signal issues, and reconstruction artifacts.

Assistant Professor & Laboratory Director   Aug 2014 – Dec 2018

Consultant – Health/BioTech, POS, & EdTech Products
(Savvyneer LLC)

California State University, Northridge   Northridge, CA

- Directed biomedical R&D & managed 4-5 staff in ground-up microbiology BSL-II lab, producing critical gene prevalence data presented at national ASM conference
- Founded tech startup (25% FTE consulting allowance) to build ground up labs, design custom software systems for labs & manufacturers under federal regulation, Canadian, NY & CA state jurisdictions & expanded business to India market in smart e-commerce
- Averted a critical business failure by taking full ownership of a failing regulatory compliance system; conducted root-cause analysis of stakeholder (USDA) rejections, defined new technical requirements, and authored comprehensive system specifications, leading to successful acceptance and implementation.
- Configured cloud LMS tools & integrations for each course and lab program; developed documentation & training content; implemented compliant systems & documentation
- Taught & trained undergrad & graduate students, teaching courses & labs in scientific & technical disciplines

Research Scientist/Radiation Scientist   May 2006 - Aug 2014
New York State Department of Health   Albany, NY

- Managed state public testing & conducted R&D, over 15 assays/processes developed
- Led quality program for chem lab FDA/A2LA certification, inspection readiness, CAPA
- Started transuranic radiobioassay lab for official government nuclear emergency prep
- Received FDA awards for clinical testing & lab process cross-cutting in emergency drills
- Successfully executed radioactive decay data acquisition & security protocols during federal nuclear disaster drills, leading to implementation of US emergency testing plans
- Contributed gene expression data & new molecular probe in Haiti cholera field study, using CDC permit/import protocol for biohazardous materials of international concern
- Published research on clinical sample alpha spectroscopy for radioactivity
- Evaluated & selected technical products, then configured and rolled out these tools to implement new digital solutions
- Built an electroplating device for an international nuclear waste transmutation study and created better film for half-life reduction by neutron bombardment techniques

Certifications & Credentials

Google Cloud Fundamentals: Cloud Networking and Security Certificate, 2024

Stanford Online, Stanford University, Statistical Learning with Python (Verified Certificate), 2024

Veeva Platform, QMS and QualityDocs Associate White Belt Certifications, 2022

New York State Clinical Laboratory Technologist License # 013930, renewable in state

EPA Training for Radioanalytical Laboratory Personnel, Association of Public Health Laboratories (APHL)

Awards & Recognition

Top Prize – Hack the Night at GitHub, Best Use of Weaviate,, AI Query Agent for climate monitoring, May 2025

1^{rst} Place, AGI Inc REAL Agent Benchmarking, AGI House SF Hackathon, 2025 (Team BrassBunny)

1^{rst} Place (tie), AGI House SF Hackathon, Bolt-sponsored AI Vibe Coding– Typing pattern analyzer, 2025

Top longevity project, 3rd Place overall, AGI House SF- Hackathon, AI x Medical Science: Longevity – Lifespan Predictor

Top 25 DEFCON 32- at Biohacking Village Capture-the-Flag (27K attendee cybersecurity/hacking conference), 2024

FDA Awards: a) Office of Regulatory Affairs, Scientific Collaboration of the Year; b) Emergency Clinical Testing Crosscutting

Projects

KaraML	*(June 2025)*	An intelligent karaoke app designed to enhance the experience for both users and venues by facilitating song selection, improving communication, and offering AI-powered recommendations
Agent of Climate Change	*(May 2025)*	Vectorized climate data to analyze long-term climate trends using Weaviate - natural language Query Agent in Python
Agent Duo for Safer Drug Dev	*(May 2025)*	MCP & A2A Hackathon competitor – AWS Edition at **AWS**, an AI Agent Pair for modeling & predicting drug-drug interactions (positive feedback on demo) using generative AI and agentic AI capabilities
DesignData Bridge to UX	*(Apr 2025)*	A centralized AI platform for teams to visualize, collaborate on, and understand the relationships between UX designs and underlying data structures <https://github.com/drgretchenboria/DesignData-Bridge>
AGI Inc. REAL Hackathon	*(Apr 2025)*	Benchmarked agentic task completion across AI model providers for newly- AGI Inc. REAL Benchmark SDK (1st Place during hackathon)
Typing Pattern Analyzer	*(March 2025)*	An AI app that verifies user identity by analyzing their typing patterns

Deep Neural Network SaMD	*(2024)*	LLM Guided Prognostic Modeling of Longevity & Quality of Life Using Claude
HL7 Google Vertex Chatbot	*(2024)*	Google Vertex chatbot for answering questions about a patient's health record
Health Checkpoint VR	*(2024)*	An empathy-driven VR aging simulation for proactive health. The experience visualizes the potential consequences of current health choices by integrating multimodal data and lab results and includes a built-in system to monitor and mitigate user anxiety.
NFC Nail	*(2024)*	Developed a smart nail to store and retrieve sensitive data and user prompt. Use case: sharing personal website by tapping nail on phone
BLE Sniffer & MITM Device	*(2024)*	Use of Raspberry Pi RP2040 as a WHAD for BLE sniffing & packet modification to test medical device vulnerability
Google Cloud VPC	*(2024)*	Secure Health Data AI Cloud Infrastructure with Google Cloud VPC

Skills Summary

Product Management	Product Strategy & Vision, Roadmap Planning, User & Market Research, User Story & Requirements Definition, Go-to-Market (GTM) Strategy, Agile/Scrum, A/B Testing, UI/UX Principles
Cloud & AI Platforms	Google Cloud Platform (GCP), Google AI Studio, AWS, Amazon Bedrock, Weaviate, Agentic AI Frameworks
Technical Skills	Python (Beginner), Figma, JQL, Data Modeling, Systems Architecture, API Integrations