

## Kshitiz Dange

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### PROFESSIONAL SUMMARY

AI-focused Engineering and Product Leader with 10+ years of experience architecting, launching, and scaling high-performance computing (HPC) and data platforms, particularly for AI/GenAI applications. Proven ability to lead and manage cross-functional, global teams of 15+ members across Engineering, Product, and Design, directing product roadmaps and the full Product Development Life Cycle (PDLC) for AI/HPC platforms. Successfully spearheaded the Onyx R&D Data Platform, focusing on computer vision, discovery, and LLM infrastructure, bridging HPC with AI/ML workflows for researchers at GSK. Delivered AI-native tools and research-driven data solutions, from concept to launch on cloud platforms like GCP, optimizing for large-scale model training and data processing at Shopify and 6 River Systems. Expert in translating complex technical challenges into user-valuable features, managing everything from low-level systems (OS/Drivers) to high-level product roadmaps, delivering significant infrastructure cost reductions and revenue enablement.

### TECHNICAL SKILLS

- **Management:** Product Roadmap & Strategy, Agile/Scrum, Team Building, Mentorship, Stakeholder Management, Vendor Management, Project & Release Planning, Cross functional leadership,
- **Cloud & Infrastructure:** Google Cloud Platform (GCP), AWS, Docker, HPC, Slurm, Batch, Vertex AI, CI/CD Pipelines.
- **Engineering:** Python, C/C++, Typescript, Go, Java, OS Development, Device Drivers, Peripherals, Embedded Systems (Zephyr RTOS, FreeRTOS).
- **Tools:** Jira, Confluence, Git, Perforce, Unix Servers, NVIDIA Omniverse.

### PROFESSIONAL EXPERIENCE

**GlaxoSmithKline (GSK)** | Boston, MA |

**Senior Product Manager, Compute & Infrastructure Platforms**

Nov 2024 – Present

- **Strategy & Road mapping:** Define the Onyx R&D Compute and Infrastructure Platforms roadmaps, aligning HPC products with AI/ML, Drug Discovery, and Protein Design goals.
- **End-to-End Delivery:** Own the full PDLC from design/concept to global launch and maintenance for cloud-native solutions on GCP.
- **GenAI Innovation:** Spearhead the integration of GenAI and LLM capabilities into existing R&D products to automate discovery and data synthesis.
- **Metrics & Governance:** Establish OKRs and KPIs to track platform reliability, user adoption, and the efficiency of AI-native research tools.
- **Collaboration:** Lead cross-team initiatives between Engineering, Data Science, and Research to sync technical specs with business milestones.
- **Leadership:** Manage 5 Product Managers, using deep stakeholder interviews to prioritize features for large-scale model training and data processing.

**Hyannis Port Research (HPR) | Boston, MA | *Engineering Manager***

June 2023 - Oct 2024

- Led 4 engineering teams in developing HPC applications for global capital markets, achieving trade volumes exceeding \$8 Billion per day during peak trading.
- Oversaw the full Software Development Life Cycle (SDLC), including risk assessment, code reviews, and test-driven development (TDD).
- Managed distributed teams across APAC time zones to deliver features to global clients in a matrix organization.

**Shopify (6 River Systems) | Boston, MA | *Software Development Manager***

Feb 2022 - May 2023

- Managed 5 Software and Robotics Engineers focused on Operating Systems, Perception, and Movement stacks for autonomous robots.
- Spearheaded a software upgrade for over 3,000 robots in the field, resulting in \$4 million in security-based cost savings.
- Led development of a next-gen simulation environment using NVIDIA Omniverse and managed strategic vendor partnerships with NVIDIA and Balena.

**BioSensics, LLC | Boston, MA | *Senior Engineer, Team Lead***

June 2019 - Feb 2022

- Led an embedded systems team to launch medical devices (FDA Class II exempt), reducing patient data collection time from 2 weeks to 5 minutes.
- Increased company revenue by \$350,000 through the delivery of a dual-device stroke recovery monitoring system as part of a \$1.5M grant.
- Reduced manufacturing costs by 3x and testing time by 10x for next-gen movement-tracking IoT devices.

**Arista Networks | Nashua, NH | *Software Engineer***

June 2017 - June 2019

- Enhanced Link Aggregation (LAG) and IPv6 support for MPLS traffic, contributing to \$1.3M in new customer revenue using C++ and Python.
- Automated critical release management tools (cron jobs) on Unix servers, reducing issue identification time from hours to minutes.

**NVIDIA | Pune, India | *System Software Engineer***

July 2013 - July 2015

- Developed the Driver Settings module for Windows applications and optimized the build pipeline to accelerate development cycles by 3x. The feature currently powers Nvidia's GeForce Now and GeForce Experience and Nvidia App.

**EDUCATION**

- MS in Information Networking | Carnegie Mellon University, Pittsburgh, PA
- BS in Computer Engineering | University of Pune, Pune, India