Pinaki Bose

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Summary

Creative problem solver with a diverse range of skills. Adept at guiding cross-functional teams towards a goal and aligning technology with business. Effective and empathetic team leader and trusted thought leader in IT.

Professional Experience

Exact Sciences

Manager, Product Management | May 2024 – Present

- Leader in the transformation of Exact Sciences IT to a product-centric model. Guided the reorganization of >50 product managers and 12 product teams. Refining a new organization-wide product operating model.
- Defining the long-term vision for technology products with attention to corporate strategy, budget, regulations, quality, and a rapidly-shifting competitive landscape.
- Manager to 12 product managers. Nurturing strong product teams through hiring, feedback, and succession planning. Fostering an environment where team members can do their best and grow.
- IT Lead for all technology solutions supporting one of the company's largest cancer screening initiatives. Directed 15+ IT teams and >100 people towards a common mission and through 2 product launches.

Manager, Technology | Feb 2021 – May 2024

- Coordinated the IT build and launch of a research study that now screens >300 patients per month.
- Built strong relationships with diverse stakeholders. Great at driving cross-functional teams to innovative solutions through clear communication of technical tradeoffs and opportunities.
- Product Owner of a custom LIMS software with a peak budget of $6M/y and headcount of 50 engineers, business analysts, developers, architects, and project managers.
- Defined lab informatics strategy for Thrive Earlier Detection Corp post-acquisition by Exact Sciences. Architected data migration and system integration strategy and led decommissioning of legacy systems.

Thrive Earlier Detection Corp

Associate Manager, Laboratory Informatics | Mar 2020 – Feb 2021

- Led a team of 3 business analysts and 25+ offshore engineers in building the company's largest software project: a LIMS system to support a laboratory. Experience building software in a regulated environment.
- Worked closely with cross-functional stakeholders to define a roadmap and timelines.
- Designed ways-of-working based on Agile principles and improved processes based on retrospectives.
- Led sprint planning and prioritization to support long-term and short-term business priorities.

Laboratory Informatician | May 2019 – Mar 2020

- 0-1 Product Management: launched a new software product and led in the design of the new system.
- Developed integrations between legacy systems and new ones. Designed and led transition.

PapGene, Inc.

Scientist, Informatics | Dec 2016 – May 2019

- Managed laboratory data for the development and execution of a landmark 10,000-patient cancer early-detection study (DETECT-A) and several smaller studies. Over 500,000 containers tracked.

- Served as a one-person software engineering team for designing and configuring a LIMS system supporting a 30+ person clinical laboratory: business analyst, project manager, and developer.
- Built 150+ custom scripts and an REST API ORM wrapper library in Python. Dashboards using R Shiny and SQL. System administration of underlying Linux OS. Firewalls, proxies, and networking to integrate with other systems, including: laboratory automation and hardware, NGS sequencers, databases, etc.
- Established policies for SDLC, version control, software testing, user acceptance testing, and validation documentation in a way that met CAP/CLIA software validation regulations governing healthcare IT.

Skills

Business & Communication

- **Business Strategy:** Planning, budgeting, and aligning solutions with business objectives and IT strategy.
- **Stakeholder Management:** Building collaborative relationships with diverse stakeholders.
- **Project Management:** Managing a timeline and dependencies for a complex, multi-team project.
- **Problem Solving:** Creative solutions balancing technical constraints, risk, and competing priorities.

Leadership & Collaboration

- **Team Management:** Managing direct reports and IT contract resources. Guiding professional growth of employees through feedback and facilitating personal growth through mentoring and training.
- **Team Building:** Building high-performing teams in a matrixed organization.
- **Cross-functional Leadership:** Leading many teams from diverse functions towards a common goal.
- **Transformational Leadership:** Directing the transformation of IT to a new product operating model.

Software Engineering & IT

- **Enterprise software management:** technology assessment, launch, customization, decommissioning
- **Modern software development:** Agile, DevOps, infrastructure-as-code, automated testing, CI/CD
- **Languages & Tools:** Python (pandas, numpy, PIL), R (tidyverse, shiny, ggplot), SQL (Postgres, T-SQL), DataBricks, Git, Linux systems administration, bash/zsh, networking basics, web basics (HTML, CSS, JS)

Healthcare & Life Sciences

- **Healthcare IT Regulations:** HIPAA, CAP/CLIA, CFR 21 Part 11
- **Molecular Biology:** PCR, next-generation sequencing (NGS), cell culture, biochemistry, microscopy

Education and Certifications

Johns Hopkins University

M.S. Chemical Biology | 2015

University of Texas at Arlington

B.S. Biochemistry, Honors, Summa cum laude, minor in Biology | 2011

B.S. Chemistry, Honors, Summa cum laude, minor in Mathematics | 2012

Certificates

- Genomic Data Science specialization, Coursera / Johns Hopkins University | 2018
- Introduction to Unified Data Analytics with Databricks | Apr 2020
- Professional Scrum Product Owner I (PSPO I) | Nov 2024