SUCHISMITA SAHU (Technical Product Owner in GenAI, Data & AIML space)

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https://explorewithsuchi.wordpress.com/– **Immediate Joiner**

TECHNICAL PRODUCT OWNER
Large–scale Complex Product Development & Management| Business Transformation Solutions| Team Leadership

- Results–driven Technical Product Owner with a strong background of 15 years in Product Management, System Design, AIML, Data Engineering, Web and Analytics based solutions across the Pharmaceuticals, GIS, and Digital Identity verification domains, with a proven track record of end to end product delivery.
- Effective in building strong relationships with stakeholders, leading teams, and guiding product development from concept to release.
- Handled a team of 3 POs with thought leadership skills and innovative product development, providing mentoring support in the related technologies

Core Skills Include:

Product Conceptualization– Product Strategy, Vision, Roadmap Development –Continuous Product Discovery – Value Proposition Creation – Customer Research – Solution Design – Customer-Centric Development – Enterprise software deployment, monitoring and security architectures – SDLC– Machine Learning – Artificial Intelligence – Data Platform with Hybrid Data Mesh architecture – MLOps– MLSecOps– Data Visualization – Natural Language Processing (NLP) – Cloud Computing – RFP–Domain Driven Design (DDD)– Functional & User Acceptance Testing – Global Stakeholders Mgmt. – Team Building & Leadership – KPI monitoring–Lean Business Case–Data Driven Decision–Making– Risk Assessment & Mitigation – Cross–Functional Collaboration – Budgeting & Planning–Generative AI – Product Lifecycle Management –Release Management – Agile Product Owner – Program Management–Backlog Prioritization

TECHNICAL SKILLS

● Prototyping	: Figma
● Roadmapping	: Jira Align, Trello
● Programming Languages	: Java, R, Python
● Databases	: MongoDB, PostgreSQL, SQL, PLSQL, Oracle 11g
● Data Warehouse	: AWS Redshift, Delta Lake House with S3, SnowFlake
● Data Quality, Catalog	: GreatExpectation, DataHub
● Data Reporting Tool	: Cognos 11.0
● Data Visualization	: Tableau.
● Requirement Management Tool	: JIRA
● Usecase Modelling Tool	: MS Visio, Lucid chart, miro board
● Documentation	: Confluence
● Multi–Cloud Infrastructure	: AWS
● Data pipeline orchestration	: Airflow, AWS Lambda
● Data processing	: Kafka streams, Spark streams, EMR, pyspark
● Data platform and MLOps	: Databricks, MLFlow
● Data Quality check, test and schema creation tool	: dbt, pachyderm
● Cost Monitoring tool	: kubecost
● CDC tool	: Debezium
● Cloud platform AWS	: EC2, S3, Datalake, Athena, FSx Luster, Sagemaker Studio, CloudFormation, SQS/SNS etc, Kinesis Data Firehose, CodeBuild, AWS Pipeline, AWS step functions, lambda, EventBridge, Data mesh architecture, Data Lakehouse.
● Model Deployment libraries	: Tensorflow, PyTorch, vLLM
● ML model testing for Facial Recognition	: Kolena
● Dataset tagging	: V7, Scale AI
● API	: GraphQL, REST, API management
● Cluster Level Monitoring	: Fluentd
● Graph	: Neo4J
● Vector database	: pgvector, pinecone
● Life Science Regulatory Guidelines	: E2B ICSR for EMA, FDA, IDMP, CDISC.GDPR, Data Privacy
● API management Platform	: APIGEE.
● UI	: NodeJS, ReactJS
● Feature Flag	: LaunchDarkly
● Observability & Monitoring	: OpenTelementry standard, Open Tracing, Fluentd, Grafana, Prometheus, Cortex, Jaeger, Kubernetes, Helm, Docker, AWS, Elasticsearch, NIFI, Go, Python, Terraform, Graphana, Ansible, Datadog
● IDE	: Eclipse, VS Code, Sagemaker studio

- Deep learning architectures, and Transformers, with a strong understanding of deep learning techniques such as GPT, VAE, and GANs, LangChain, LangSmith, LangGraph, TourchTune, LangServe, Autonomous Agents, jFrog X-ray, Qwak AI platform, Bytewax stream, Comet

EMPLOYMENT HISTORY

AI/ML Freelancer & Consultant (Oct 2023 – Present)

Freelancing in AI cybersecurity, adversarial attacks, and AI/ML training, Advising on GenAI and AI productization strategies, Training AI/ML professionals via Great Learning & technical workshops.

JUMIO CORP. (2022 – Jul 2023)

- **Strategised, planned, drove the implementation of** Graph data based Automated Fraud Detection system using LLMs for digital KYC verification process.
- Technical design of LLMOps platform and Platform Security.

EAGLEVIEW (2021 – 2022)

- **Strategised, planned, drove the implementation of Data, MLOps, platforms** Platform Security, Model Adversarial learning techniques **& Observability Platforms** following OpenTelemetry standard and Cost Monitoring using Kubecost **with AWS.**
- Conceptualised, designed and released a Data Platform that is a **hybrid of Data Mesh and Data Fabric architecture** with **Enterprise Knowledge Graph with Semantic Layer powered data catalogue**, following Data Governance Framework by defining policies, procedures, processes, best practices, serving the data products and providing business data access in Databricks marketplace for the Data Products and implementing AI Search engine on top of this.

ARISGLOBAL (2012 – 2021)

- **LSMV and LSRM:** Owned, delivered and supported the Data warehouse system built using AWS Redshift consolidating data from multiple sources and building Decision Support (DSS) analytical platform on top of this with following use cases
  - Risk Benefit management in 3 phases by incorporating data mining algorithms, advanced or predictive analytics/modelling, Machine Learning algorithms and Natural Language Processing with quality which made the Organisation as the second-best provider of similar functionality in the Pharma Industry.
  - Drug-Drug interaction (Support Vector Machine, KNN, RF classifier, ANN, Naive Bayes Deep NN).
  - Precision Medicine with Machine Learning (logistic regression, NN, SVM, Decision Tree, Random Forest, Lasso, ElasticNet)
  - Automated case processing by extracting Named Entities from various reports submitted by Pharmaceutical companies to the Health authorities and medical journals following Natural Language Processing, which reduced 30% manual effort. Data extraction from PDF and image reports using OCR, Pytessaract, EasyOCR, Textract, Camelot, Tabula and OpenCV.
  - Data Visualisations using Tableau.
- API design while moving Monolithic to Microservice architecture.
- Designed and implemented Cloud Monitoring system.
- Designed and drove Kubernetes Security and Observability guidelines.

PREVIOUS ROLES

- Business Analyst – GalaxE Solutions (2010 – 2012)
- Senior Software Engineer – Target Corporation (2008 – 2010)
- Software Development Roles at iFlex, Cyient

MAJOR ACHIEVEMENTS & RESPONSIBILITIES ACROSS THE TENURE

- **Business Growth:** While working with Jumio, I managed 3 teams with 43 team members and a budget of 400M annually, creating over 532M in annual revenues.
- **Cost Savings:** Saved - 500M over AWS resource utilization by implementing various Observability metrics and taking appropriate actions.
- **Product Conceptualization, Vision, Strategy and Value Proposition: A new initiative** 'Automated Document processing" with AI OCR and the workflow with Generative AI, which is targeted to draw 27% more revenue and reduce 30% efforts. Conducted market research, customer interviews, and competitor analysis to identify industry trends, pain points, and growth opportunities. Developed and communicated a clear product vision and strategy aligned with the overall business goals and market needs.
- **Roadmap Definition and Risk Management**: Created and maintained a product roadmap with defined OKRs that outlines the prioritized features and enhancements to be developed over time. Formulated plan for Risk Management by identifying and mitigating risks related to the product's development, deployment, and maintenance. Defined, Measured, and Improved efficiency and velocity across the product charters in collaboration with Engineering/ML leadership. Monitor and analyze product metrics, user feedback, and market trends to identify areas for improvement and growth.
- **Agile Product Development**: Elicited, documented, and analyzed product requirements from various stakeholders, including customers, users, and internal teams. Ensured Customer-Centric Development: Understood clients' needs, gathered feedback, and collaborated cross-functionally to create solutions that meet market demands. Converted business objectives into initiatives and epics, designing data engineering and MLOps pipelines, defined test scenarios, and ensured smooth progress throughout the release lifecycle. Managed the product backlog, which includes prioritizing items, breaking them into user stories or tasks, and ensuring that the backlog is continuously refined and up-to-date. Collaborating with Agile development teams

during sprint planning, backlog grooming, and sprint review meetings to ensure that user stories are delivered on time and meet the required quality standards.

- **Team Leadership & Technical Mentoring**: Provided technical guidance to development teams, ensuring that the product architecture aligns with the overall vision and meets the necessary technical standards. Lead a team of associate product managers and facilitated effective communication and documentation for successful product development.
- **Stakeholder Communication**: Facilitated effective communication between stakeholders, development teams, and other relevant parties to ensure a shared understanding of the product's progress and upcoming features. Engaging with various stakeholders, including senior management, UX designers, customer success, sales, engineering, vendors, and production support teams, to ensure that the product meets the needs of the end-users and delivers a positive user experience.
- **Performance Monitoring and Improvement**: Analyzed product performance, user feedback, and market trends to identify areas for improvement and drive product enhancements, with key product metrics.
- **Customer Engagement:** Engage with customers to gather feedback and insights, ensuring their needs are understood and incorporated into the product roadmap, establish and maintain strong relationships with key customers to drive product adoption and satisfaction, monitor customer satisfaction metrics and address issues proactively.
- **Product Launch and Marketing**: Prepared GTM Strategy, assisted with product launch activities and collaborated with marketing teams to create effective product messaging and marketing materials,
- **Performance Analytics:** Define and track key performance indicators (KPIs) to assess the success and effectiveness of cybersecurity products, analyze data and user feedback to ma**ke** data-driven decisions for product improvements.

ACADEMICS & CERTIFICATIONS

- **M.Tech in Data Science and Engineering** from BITS, Pilani, 2023
- **B.Tech. (Electrical Engg.)** from Utkal University, Odisha, 2006
- **PAHM (Professional Academy of Health Management) Certification 2010**
- **Certified Scrum Product Owner** by Scrum Alliance, 2018
- **SAFe 5.0 practitioner 2021**

ADDITIONAL INFORMATION

- AI Freenlancer for Cyber security & Adversial attacks.
- AIML Trainer with GreatLearning

SUCHISMITA SAHU

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Dear Hiring Manager,

I am writing to express my strong interest in the Technical Product Owner at your Organisation. As an accomplished and results-driven professional with **over 15 years of experience in Web, Data, AIML and Gen AI based solutions**, I am confident that my skills and expertise align perfectly with the requirements of this role.

I am a Technical Product Owner with delivery focused mindset, building the main business product lines by deriving value from the data and adopting ML or Gen AI based automations. Also involved in building and maintaining the end-to-end internal platforms those support these business product lines to get available to the end-users in a seamless, secure and cost-effective manner.

During my tenure at **Jumio Corporation, I** took ownership of defining product strategy, preparing the technical roadmap, designing required technical pipelines such as Data, MLOps, Observability & Security, driving the team in developing of KYX 2.0 and delivering PI-specific outcomes following the SAFe framework, that is based on RAG and Graph Neural Network based digital biometric verification process. Supported Product manager in features verifications, product validation and launching it with GTM strategy and tracking the GTM metrics. One of my key accomplishments was to introduce Generative AI based Chatbot with automated workflow, adopting key principles for responsible AI which drew a target of 30% more market share, 25% more revenue and 30% reduction in time**.** All positive and negative test scenarios during the UAT phase, leading to a successful launch in the production environment without any major defects. By clearly mentioning and validating API response time under maximum load, I ensured better performance during testing, and the introduction of a batch processing mode mitigated the impact of performance issues. I am proud to have achieved a significant 32% reduction in estimated efforts for a complete release at Jumio Corp, effectively managing the release scope to prevent any spill-over from the planned timeline. My expertise in streamlining ML model training by automating manual processes and implementing an agile approach led to a time-saving of 13% for the customer, while also minimizing potential errors.

Following the same roles and responsibilities, at **EagleView**, I was involved in building Data, MLOps and Observability platforms those led to an impressive cost-saving of 37 million dollars in AWS expenses by optimizing resource usage.

During my tenure at ArisGlobal, I incorporated Data warehouse, analytics and NLP related use cases with necessary compliance guidelines, maintained traceability of outcomes, and provided proactive customer support, leading to increased customer engagement and higher CSAT scores.

As a seasoned Technical Product Owner, I have been actively involved in all phases of product development, from conceptualization to model integration, deployment, and continuous improvement. My proficiency in Agile project management, backlog management, and user story definition ensures the efficient delivery of customer-centric products that meet market demands. My strong background in data science, artificial intelligence, and cloud computing has enabled me to develop innovative solutions for complex problems. I have successfully streamlined ML model training processes, implemented efficient data pipelines, and improved system observability, resulting in substantial cost savings and increased efficiency. Throughout my career, I have built strong relationships with stakeholders, facilitated cross-functional collaboration, and guided teams to deliver exceptional products that meet market demands.

Major LLM based Use cases undertaken

- Fraud Detection using a 360-Degree Knowledge Fabric
- RAG based KYC verification with LLM based Chatbot
- AI Search system

Personal projects undertaken

- Building Text2SQL & Text2Cypher system
- AI based NER extraction from image invoices.

Having **M.Tech in Data Science and Engineering**, I am committed to staying at the forefront of industry advancements and applying cutting-edge technologies to deliver innovative solutions.

As a natural leader and problem solver, I have fostered a culture of continuous improvement and collaboration among cross-functional teams, resulting in successful product launches, improved customer satisfaction, and enhanced team performance.I am excited about the opportunity to contribute to the success of your Organisation.by leveraging my extensive experience and technical acumen to drive product strategy, development, and market competitiveness.

Thank you for considering my application. I look forward to the opportunity to discuss further how my skills and experience align with the goals of your Organisation. Please find my detailed resume attached for your reference.

Sincerely,

Suchismita Sahu