Manas Talukdar

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Senior industry leader in Enterprise AI and Data Infrastructure. IEEE Senior Member, Fellow of British Computer Society (BCS), Senior Fellow at AI 2030 and Digital Economist. Speaker, startup advisor, technical reviewer. Developed AI and Data products adopted globally. Multiple patents in data processing and ML for AI. Recognition through honors and invitations to join prestigious AI organizations.

EDUCATION

North Carolina State University, Raleigh, NC, *Master of Science, Electrical Engineering*	Aug 2005 – May 2007
Gauhati University, Assam, India, *Bachelor of Engg., Electrical Engg.*, Dean's List - 5 semesters	Aug 2000 – June 2004

EXPERIENCE

Director of Engineering, Labelbox, San Francisco, CA   Feb 2024 – present
- Led platform, product, ML engg. & applied research orgs in US & EU to develop an AI platform & AI SaaS products.
- Delivered initiatives in RLHF, SFT. LLM evaluation, fine-tuning & experimentation, data IO & processing, resiliency, etc.
- Led initiative to enhance AI platform with generative AI agentic capabilities, leveraging Model Context Protocol to enable LLM tool calling for product features built as AI agents.
- Built a globally scalable platform to train and tutor AI by highly skilled individuals in specialized domains. Enabled successful company pivot and significant revenue growth.

Director of Engineering, C3 AI, Redwood City, CA   Dec 2022 – Feb 2024
- Manager of managers. Led org of 6 teams building multi-cloud, distributed data infra PaaS for large-scale AI/ML applications. Specific initiatives include data integration, data exploration and productionization, feature store, vector stores for GenAI, AI/ML application development tooling, etc.

Senior Engineering Manager, C3 AI, Redwood City, CA   Jan 2022 – Dec 2022
- Grew the Data org from 3 to 5 teams. Led initiatives in data infra, distributed computing, ML, dev tooling, UI framework.
- Established structures across org for growth and retention. Drove growth by mentoring employees into key roles in both IC and management track, hiring high-impact talent and resource planning for initiatives.
- Drove growth across department by hiring ICs and recruiting engineering managers. Coached new managers. Started a newsletter for sharing technical information and departmental updates.

Engineering Manager, C3 AI, Redwood City, CA   Jan 2020 – Dec 2021
- Established the Data org within Platform engineering department. Ensured delivery of high-impact projects. Led performance benchmarking against industry solutions. Grew a team of 6 to an org of ~20 engineers across 3 teams. Defined charter for each team. Mentored senior engineers to lead roles for each team. Drove growth across department. Established a new interviewing framework. Worked with Talent Acquisition to streamline hiring process.
- As part of department leadership refined expected signals and attributes for each role and level in IC track. Instituted a framework for promoting engineers, specially to lead role.
- Started data-driven performance analysis across engineering department for developers and teams, mining data from Jira, GitHub, etc. Instituted a 360º feedback framework. Started Lunch & Learn initiative for sharing and translating tribal knowledge into technical documentation.

Engineering Manager, OSIsoft, LLC., San Leandro, CA   Jan 2016 – Jan 2020
- Managed, grew a team working on distributed PaaS, SaaS metadata solutions for streaming data. Enabled data science through rule-based metadata generation. Maintained an on-prem event notifications product. Managed dependencies across teams, guided design decisions. Managed backlog, drove road-map. Improved sprint velocity by 50%.
- Started new team for large-scale IoT data collection project. Gathered requirements, defined product direction. Motivated source control in Git. Developed APIs, logging infra, data egress from IoT module to enterprise data stores.
- Founded and grew a high-value team working on cloud-native distributed Sequential Data Store PaaS to process billions of streams from millions of devices. Identified requirements, defined architecture, developed road-map. Hired, on-boarded, enabled developers in team. Took project from prototype to product. Developed caching service. Managed SDLC. Introduced CI/CD. Researched partner technologies, provided feedback. Presented at meetings, conferences.

Software Engineering IC Roles, OSIsoft, LLC., San Leandro, CA   July 2007 – Jan 2016

PUBLICATIONS

- R. Vanijjirattikhan, M. Talukdar, and M-Y. Chow, "Accumulated Effect Parameter Tuning Method for Geometrical Path Tracking of Wheeled Mobile Robots", *in the proceedings of the IEEE/ASME International Conference on Advanced Intelligent Mechatronics*, Zurich, September 2007.

SKILLS

Management
- Organizational growth, engineering productivity. Agile methodologies (scrum, kanban), backlog management, requirements analysis, collaborating with users, product, services, support, etc.
- People management, 1-1s, performance reviews, career development, performance improvement plans, on-boarding.

Computing
- Artificial intelligence, machine learning, PaaS, SaaS, distributed systems, cloud computing, data infra, APIs.
- Data structures, algorithms, design patterns, systems design.
- Java, Python, C#, JavaScript, TypeScript, C++ | SQL, NoSQL, OSIsoft PI | REST | Vue.js, Node.js, Git.
- Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP).

Languages: Fluent in Hindi, Assamese (North East Indian language). Elementary Bengali. Basic Sanskrit.

Assam Fine Arts and Crafts Society, India, 5-year diploma in Fine Arts and Crafts.