Manas Talukdar

(xxx)-xxx-xxxx | ✉ firstName.lastName@gmail.com | **in** linkedin.com/in/manastalukdar | 🌐 bit.ly/2sFVyvc

Software engineering leader experienced in building, managing multiple teams and growing organizations. More than 14 years of industry experience. Skilled in Agile methodologies, measuring and improving engineering productivity. Excellent communication skills. Successful collaborations with cross-functional stakeholders. Instituted best practices and processes to streamline rapid growth across multiple teams. Quick learner, self-driven. Significant experience in cloud computing, distributed systems and data infrastructure. Recent focus includes real-time, high-throughput streaming data and scalable AI, ML platforms. Current core competencies in large-scale systems design, people, project management and organizational growth.

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

Engineering Manager, C3 AI, Redwood City, CA   Jan 2020 – present
- Managing a group of 3 teams building multi-cloud, distributed data infrastructure PaaS for large-scale AI/ML applications. Responsible for key initiatives to deliver major features. Led performance benchmarking against industry solutions.
- Established the Data group within Platform. Grew a team of 6 to a group of ~20 engineers across 3 teams. Defined charter for each team. Identified, mentored and promoted senior engineers to lead roles for each team. Continuing to drive further growth across organization. Established a new interviewing framework. Worked with Talent Acquisition to streamline hiring process.
- As part of org leadership refined expected signals and attributes for each role and level in individual contributor track. Instituted a framework for promoting engineers, specially to lead role.
- Started data-driven performance analysis across org for developers and teams, mining data from Jira, GitHub, etc. Instituted a 360° 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 and grew a team working on distributed PaaS, SaaS metadata solutions for streaming data. Led team to successfully complete a data science program, through rule-based automated metadata generation. Also maintained an on-prem event notifications product. Managed dependencies across teams and guided architecture decisions. Worked with stakeholders to manage backlog and drive road-map. Improved sprint velocity by 50%.
- Started new team for enterprise wide IoT data collection project. Gathered requirements and defined product direction with product manager and group lead. Motivated use of Git as source control. Developed APIs, logging infrastructure and data egress from IoT module to enterprise stores.
- Founded and grew a high-value team working on next-gen, cloud-native distributed Sequential Data Store PaaS solution to process billions of streams from millions of devices. Collaborated with customers, product managers and engineering architect to identify requirements, define system design and develop road-map. Recruited and on-boarded developers into team. Took project from prototype to product. Assisted team members with sprint tasks and helped them complete goals. Developed a caching service - passed on to developers in the team. Managed SDLC. Introduced CI/CD. Researched partner technologies and provided feedback. Presented at meetings and conferences.

Software Engineering IC Roles, OSIsoft, LLC., San Leandro, CA   July 2007 – Jan 2016
- Architected and developed scalable, distributed micro-services for PaaS product using new Cloud technology, Service Fabric. Threat modeled components. Architected full-stack real-time observability systems. Interviewed, on-boarded new engineers. Bootstrapped R&D project for distributed data store. Built core platform for PaaS/SaaS products. Developed parts of first cloud product at OSIsoft (full stack, REST APIs, software management system, alerting system, DevOps tools, etc.). Worked on middleware SDK, test automation, engineering rotation program.

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.
- Backlog management, requirements analysis, collaborating with customers, product, services, support, etc.
- People management, 1-1s, performance reviews, career development, performance improvement plans, on-boarding.

Computing
- PaaS, SaaS, distributed systems, cloud computing, micro-services, IoT, service-oriented architecture, APIs, web services, multi-threading, data modeling, software threat modeling, Agile methodology (scrum, kanban).
- Data structures, algorithms, design patterns, systems design, machine learning (basic).
- C#, Java, Python, JavaScript, C++ (formerly) | SQL, NoSQL, OSIsoft PI | REST | Vue.js, Node.js, Git.
- Microsoft Azure; Amazon Web Services (AWS).

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.