

## GAJANAN AGRE

Austin, TX • (512) 203-3384 • [gajanan.agre@gmail.com](mailto:gajanan.agre@gmail.com)

### PROFESSIONAL SUMMARY

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Seasoned Software Engineering Manager/Director with over 14+ years of experience, excelling in fast-paced SaaS technology environments. Hands-on Technical lead Recognized for expertise in implementing software development best practices to build and own mission-critical industry solutions. Adept at fostering strong people management, promoting cross-team collaboration, and demonstrating technical proficiency. Skilled in project and program management, ensuring the seamless execution of projects to achieve organizational objectives.

### TECHNICAL SKILLS

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**Programming Languages:** C, C++, VC++, Embedded VC++, C# .NET, Python, Lua

**AI Technologies:** TensorFlow(Python)

**Microservices Frameworks:** FastAPI, Django with Django REST Framework

**CI/CD:** Docker, Kubernetes, Gitlab, GitHub, Jira, Confluence

**Mobile Development:** Symbian OS and Qualcomm's BREW development for CDMA mobile phones

**Development Methodologies:** Agile, Scrum, Kanban, and Waterfall

**Certifications:** CSPO, CSM, PMP, AWS Certified Cloud Practitioner

### WORK EXPERIENCE

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**Eagle Eye Networks, Austin, TX**  
**Software Engineering Manager**

**Jul 2021 – Feb 2024**

- Led the development team of a SaaS-based B2B Video Management solution leveraging C/C++, GStreamer, and FFmpeg for edge controller devices, enabling real-time video processing and transmission
- Achieved notable success in optimizing security measures by integrating statistical analysis with metadata and contextual information, leading to a 35% improvement in the accuracy of identifying and isolating out-of-bound behavior in video streams
- Instrumental in the successful integration of machine learning techniques into video content analysis, resulting in a 50% increase in the detection of suspicious activities, significantly improving situational awareness
- Provided adept technical leadership to software engineering teams, guiding them through architectural intricacies, design challenges, development hurdles, and live-site operations, ensuring seamless project progression
- Spearheaded strategic planning initiatives around WebRTC, HLS and RTSP, driving the team to meticulously scope objectives, develop execution plans, and consistently achieve milestones, all while upholding standards of quality
- Formed collaborative partnerships with Product Management and stakeholders, aligning immediate needs with long-term goals to deliver impactful solutions that resonate with organizational objectives
- Cultivated a high-performing engineering team by meticulously selecting and retaining top-tier talent, fostering an environment of innovation, collaboration, and excellence
- Empowered team members through personalized coaching and tailored career development opportunities, nurturing their growth trajectories and facilitating their attainment of professional aspirations

**Capgemini America, Chicago, IL**  
**Engineering Manager**

**Aug 2013 – Jun 2021**

- Worked as Resident Engineering Manager at Rockwell from Capgemini for collaborative partnership.
- Liaising with offshore team and Rockwell onsite Product Managers and Department Head for planning and execution of IIOT-based projects based on C++, MFC, VC++ technology, and cloud technology stack
- Established a comprehensive monitoring and alerting system using Prometheus and Grafana, reducing downtime by 50% annually through proactive identification and resolution of system performance issues.
- Implemented Apache Kafka-based data ingestion pipeline for collecting high-volume data streams from edge devices
- Architected an edge computing solution using AWS IoT Greengrass, enabling real-time data processing and analytics at the edge while seamlessly synchronizing data with AWS cloud services for advanced and long-term storage
- Designed and implemented a real-time analytics solution using Apache Flink and Apache Kafka, enabling predictive maintenance and anomaly detection by processing sensor data streams in near real-time.

- Implemented a RabbitMQ-based message queuing system for asynchronous communication between field edge devices, gateways, and backend systems, improving data reliability and achieving sub-10 millisecond latency
- Designed automated test tools to enable IIOT-ready and failsafe Stratix Modules software
- Actively participated in reviews of various project artifacts including documents, designs, code, test cases, and user documentation, facilitating comprehensive feedback and improvement opportunities
- Fostered open and direct communication channels within the team, recognizing the value of collaborative partnerships and mutual respect in cultivating strong working relationships

**Aegis Ltd, Mumbai, India**  
**Engineering Manager**

**Apr 2012 – Jul 2013**

- Developed C# .NET, MongoDB-based data analytics software with geospatial query support for an oil industry sector
- Developed real-time analytics and reporting capabilities by leveraging MongoDB's query language and aggregation framework for ad-hoc querying, data aggregation, and complex analytics pipelines and decision-making capabilities
- Led a team of more than 30 resources both front-end and backend across technologies with an overall attrition of 8%

**Mphasis Ltd, Pune, India**  
**Tech Lead**

**Jun 2011 – Mar 2012**

- Developed and deployed dynamic and visually engaging web applications by leveraging HTML/CSS/JavaScript stack, ensuring seamless user experiences and optimal presentation of content
- Leveraged Node.js to craft scalable, high-performance server-side applications, optimizing concurrent connection handling and accelerating API and web server development for seamless user experiences

**Patni Computers Limited, Mumbai, India**  
**Technical Lead**

**Jan 2006 – May 2011**

- Accelerated development cycles by 40% through proficient utilization of .NET (C#) framework
- Achieved a 25% reduction in time-to-market for new features by implementing composite architecture principles, enabling seamless integration of modular components and services for Industrial applications
- Increased development efficiency by 30% through the streamlined utilization of eVC++ environment, resulting in faster time-to-market for applications targeting Pocket PC based Salesforce application for soft drink bottler Coca-Cola
- Attained a 20% reduction in application size and resource consumption, optimizing Postgres SQL stored procedures performance and enhancing the scalability of deployed solutions for all Pocket PC-based apps.
- Enhanced payment processing efficiency of Parking Management solution by introducing multiple payment options and automated fee calculation, resulting in a 40% decrease in transaction times
- Optimized operational efficiency by employing robust reporting and analytics tools to pinpoint areas for improvement

**Indiagames Ltd. Mumbai, India**  
**Technical Lead**

**Mar 2003 – Dec 2005**

- Designed and developed Mobile game applications based on Symbian OS and Qualcomm's proprietary BREW SDK using C and C++ technology stack for CDMA mobile phones in extreme programming delivery framework
- Elevated the quality of graphics rendering in PC gaming environments through proficient utilization of DirectX's extensive API suite, enhancing user engagement and satisfaction across diverse gaming platforms
- Successfully resolved challenging graphics rendering issues by employing advanced debugging techniques and optimizing shader performance, resulting in smoother frame rates and improved overall graphical fidelity

## **EDUCATION**

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- Pursuing MS in Machine Learning at Georgia Institute of Technology, Atlanta
  - B.Tech. in Computer Engineering at Dr. Babashaheb Ambedkar Technological University, India, 1997-2001