

GAJANAN AGRE
Austin, TX • (512) 203-3384 • gajanan.agre@gmail.com

PROFESSIONAL SUMMARY

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

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

Eagle Eye Networks, Austin, TX

Jul 2021 – Feb 2024

Software Engineering Manager

- 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

Aug 2013 – Jun 2021

Engineering Manager

- 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

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