

MANOJ KUMAR ACHARYA

Engineering Manager



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Austin, TX



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EDUCATION

Masters of Business
Administration

Michigan State University



East Lansing, MI

Bachelor of Engineering

Computer Science and
Engineering

BPUT (Former Utkal University)

SKILLS

- Team Leadership & Management
- Strategic Planning & Revenue Optimization
- Agile Methodologies (Scrum)
- Cross-functional Collaboration
- Java, Spring Boot
- REST, Microservices
- Kotlin
- Analytics
- Product Development & Innovation
- Android Development
- CI/CD DevOps
- RDBMS(Oracle, DB2, PostgreSQL)
- AWS, Azure, Docker, Kubernetes
- MySQL
- AI/ML
- OAuth 2.0
- JSON

SUMMARY

Strategic hands-on technology leader with 15+ years of experience managing cross-functional engineering teams and delivering scalable, high-impact software systems across automotive(Android), IoT, and enterprise environments. Proven track record in setting organizational priorities, mentoring, and driving product innovation with a strong focus on operational excellence, resource efficiency, and team development. Passionate about building resilient, high-performing teams and influencing business strategy through technology.

WORK EXPERIENCE

Engineering Leader

General Motors

📅 April 2019 - Sept 2024

📍 Austin, TX

- Led cross-functional teams of engineers, QA, and DevOps to deliver critical Java- and Kotlin-based infotainment applications and backend services across 3 platform generations, achieving 95%+ on-time delivery and driving multi-million dollar revenue growth through production-ready deployments.
- Enabled the in-vehicle marketplace projected to generate \$23M annually by designing and deploying a Kafka-based Backend for Frontend (BFF) microservices development and orchestration using Spring Boot, improving modularity and deployment velocity.
- Built and deployed in-house app analytics framework for GM's infotainment system, enabling real-time tracking of DAU/MAU across 10M+ vehicles.
- Designed Tableau dashboards for executive visibility, resulting in 15% improvement in user engagement strategies and data-driven roadmap prioritization.
- Piloted an LLM-powered developer enablement tool, reducing onboarding time by 40% and improving knowledge discovery for complex core applications.
- Fine-tuned LLaMA 3 70B, implemented RAG with FAISS, MLFlow, Transformers, and deployed the solution in production via Kubernetes.
- Led Android app development for compliance, network diagnostics, and eCommerce enablement across 3 infotainment system generations, contributing to expanded regional launches and compliance with cross-border legal requirements.
- Partnered with legal, UX, and cybersecurity teams to ship new infotainment features supporting 20+ global regions, while aligning with evolving privacy regulations (e.g., GDPR, CCPA) and GM security frameworks.
- Integrated InfinityTune radio app into the infotainment ecosystem with a premium subscription model, projected to drive \$150M in recurring revenue over 5 years, including auto-renewal and entitlement integration.

Technical Lead

VisionIT

📅 April 2016 - April 2019

📍 Detroit, MI

- Unit Testing
- SAML
- LDAP
- BLE
- Python
- Zuora Payment System

WORK AUTHORIZATION

- Permanent Resident(GC)

- Hired and led a team of 6 developers to build core infotainment applications and internal analytics tools that powered next-gen in-vehicle experiences across multiple GM vehicle lines, improving engineering velocity and cross-platform code reuse by 30%.
- Collaborated with RV vendor ASA to develop a SMART Trailing solution integrated with Android Auto, enabling seamless trailer configuration via infotainment systems—used in over 200K GM trucks and resulting in increased customer satisfaction for towing features.
- Developed and productized multiple trailing proof-of-concepts, later adopted as core apps, which reduced trailer setup complexity and contributed to a 20% reduction in customer support inquiries related to trailing.
- Designed and delivered a remote mirroring Android app that allowed customers to securely share infotainment screens with support agents, accelerating troubleshooting and reducing in-dealer service escalations by 35%.
- Built a mobile test harness app used internally to validate features like Teen Driver report cards, remote commands, and HVAC preconditioning, increasing QA efficiency by 40% and enabling quicker regression testing across new infotainment releases.

Senior Software Engineer

Compuware Corp/Lochbridge/DMI

 December 2009 - April 2016

 Detroit, MI

- Developed Urban Active – Campus Car Share, a pilot Android app deployed at a GM facility, allowing employees to reserve, drive, and return EVs from a shared vehicle pool—boosting EV utilization by 25% during the pilot phase.
- Designed and delivered the Infotainment System Validator, a web-based tool leveraging OnStar APIs to allow third-party developers to build, validate, and deploy infotainment apps, streamlining development and ensuring API compliance across media and diagnostic features.
- Developed the Android UI for Hyundai's BlueLink app, integrating 12+ remote and location-based services (e.g., POI search, geo-tracking, valet/curfew alerts).
- Enhanced user experience, boosting app store ratings by 25% and ensuring 99% feature reliability during phased launches.
- Created a dedicated BlueLink service testing tool that simulated remote vehicle operations (e.g., start/stop engine, lock/unlock, diagnostics), reducing QA cycle time by 40% and enabling scalable testing for Hyundai's connected car services.
- Independently designed and developed the Service Workbench Menu & Inspection Toolkit (Service MIT), a B2B Android productivity app that empowered service consultants to perform vehicle intake at the customer's vehicle, reducing service write-up time by 30% and improving customer engagement at 100+ dealerships.