

Surya N

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Summary

Lead Engineer with 7+ years of experience in Android development and leadership roles. Successfully optimized project workflows, reducing expenses by 20% and boosting efficiency by 25%. Proficient in mobile development, AI integration, and strategic leadership, seeking a Lead Android Engineer role to drive innovation and efficiency.

Skills

- **Programming Languages:** Kotlin, Python, Java, JavaScript, C/C++, Swift.
- **Mobile Development & Frameworks:** Android SDK, Jetpack Compose, WorkManager, Coroutines, LiveData, Room Database, SQLite, XML, Retrofit, Hilt/Dagger, Firebase, Google Play Console, SwiftUI, Xcode, OOP, algorithms, mobile development lifecycle, application monitoring, Json, R8, proguard.
- **Software Architecture & Testing:** MVVM, MVP, MVC, JUnit, Mockito, CI/CD pipelines, Git, Jenkins.
- **AI & Data Science:** Machine Learning, Deep Learning, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebook.
- **Soft Skills:** Leadership, communication, cross-functional teamwork, task delegation, mentorship, quality assurance, innovation, project lifecycle management.
- **Languages:** Proficient in English, Tamil, Kannada, Telugu, and Hindi.

Professional Experience

Lead Engineer

April 2020–Present

AIRTEL DIGITAL, Bengaluru, KA

- Created a cost-effective solution, reducing project expenses by 20% and enhancing efficiency by 25%.
- Led a team to deliver a complex engineering project, improving client satisfaction by 15%.
- Built a TV app with Jetpack Compose, increasing user engagement by 40%.
- Mentored junior developers, improving technical skills and boosting team productivity by 30%.
- Implemented RESTful API strategies using Retrofit and RoomDB within a MVVM architecture, increasing two-way data synchronization speed by 40% within six months.
- Consistently performed unit testing and integrated CI/CD pipelines with Sonar for code quality assurance, ensuring adherence to security policies and implementing multi-threading for performance optimization. Developed new user interfaces using Jetpack Compose and Kotlin.
- Kotlin, Java, XML, Jetpack Compose, WorkManager Retrofit, Hilt/Dagger, MVVM, Deep Learning, AI, TensorFlow, Keras, PyTorch, Numpy, Pandas

Software Engineer

March 2018–April 2020

DATAMATICS DIGITAL LIMITED (TECHJINI), Bengaluru, KA

- Built Android and Node.js backend systems with end-to-end expertise.
- Automated scripts, reducing manual efforts by 30% for repetitive tasks.
- Acquired skills in Android architecture, Firebase, databases, Java, and Kotlin.
- Improved processing efficiency by 20% using threads and work pools.
- Collaborated with cross-functional teams, increasing project success rates by 10%.
- Engineered a secure data pipeline handling 1GB+ daily transactions, ensuring 100% compliance with industry security standards.

- Android, NodeJS, JavaScript, Jetpack Components, WorkManager Retrofit, Dagger, Espresso, MongoDB

Awards

- **Certificate of Achievement** – Airtel Digital (Xsafe Services Migration)
- **GEM Recognition (2022, 2023, 2024)** – Airtel Digital (Xsafe App Development)
- **Employee of the Month** – Airtel Digital (Xsafe TV App)
- **Star Award & Best Team Award (2019)** – Techjini
- **Budding Star Award (2018)** – Techjini

Education

Bachelor of Engineering in Computer Science Engineering

June 2013 -June 2017

VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, Mysuru, KA.

Honors: 7.5/10 CGPA

- **Coursework:** Data Structures and Algorithms, Database Management Systems (DBMS), Computer Networks (CN), Operating Systems (OS), and Computer Architecture (CA).
- **Additional Learning:** Completed courses on Data Science and Python to enhance analytical and programming skills.
- **Projects & Hackathons:** Made a prototype in hackathons, presenting findings to peers and addressing major software usability issues through user testing feedback.

Projects

AIRTEL DIGITAL

- **Xstream:** Optimized the OTT movie app to deliver seamless entertainment by enabling in-app streaming of content from content providers (CPs), with support for DRM-protected media and live feeds via DTH connections over the internet.
- **Xstream TV:** Transitioned from the Leanback component to Jetpack Compose UI, resulting in a 25% performance improvement, a 20% increase in user engagement, and a significant reduction in boilerplate code.
- **Xsafe:** Built an Android surveillance app with live feeds, cloud playback, subscriptions, and MFA security, increasing engagement by 30% and revenue by 25%.
- **Xsafe TV:** Developed an Android TV app using Jetpack Compose, optimizing live feed processing by 35%.
- **Digitalization:** Created a Python-based OCR system with K-means clustering, achieving 90% accuracy in data extraction.
- **2G-4G Classification:** Utilized Apache Spark & K-means clustering to enhance complaint resolution efficiency by 40%.

DATAMATICS DIGITAL LIMITED (TECHJINI)

- **IDFC Banking App:** Integrated cKYC for loan lead generation, increasing conversions by 30% and reducing processing time by 20%.
- **Jayavelu Music Player:** Optimized Room/SQLite database, improving audio streaming, UI, and engagement by 30%.
- **Metro Transit System:** Directed a real-time ticketing and tracking system, reducing ticket processing time by 25%.
- **Spireon Fleet Management:** Implemented theft prevention and route optimization, reducing theft by 30% and improving efficiency by 20%.