Sudarshana Karkala

Sr. Engineering Manager – Mobile / Telematics Apps

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Experienced software development leader with a track record of delivering high quality products and leading high performance Agile teams.

Core competencies

- Native **Mobile App Development** (iOS | Android) | Telematics Security | IoT apps | Solar Energy apps
- **Product Delivery Management |** Handling Customer Requirement/Feedback/Issues.
- People Management | Conflict Management | Change Management | Focal Review | Hiring | Billing
- Scrum Master | Agile Scrum (Sprint) & Waterfall methods for Software/Hardware Parallel Development

Skills

- Proficiency in **Swift** programming, **SwiftUI,** Core Data, Network, WiFi / BLE communication | Xcode
- UML, Design Patterns (**VIPER**, MVC, MVVM, MVP),   Data Structure and Algorithms.
- Firebase Analytics, Telematics / CarPlay Programming, HomeKit, Generative AI

Experience (19 Years)

Enphase Solar Energy Private Limited, Bangalore, India   July 2021 - PRESENT
Sr, Engineering Manager (iOS, Android, Cloud), Team size : 30+

- Responsible for Technical Leadership, Roadmap Planning, **Product Delivery**, People Management, Process Development, Staffing, Dependency Handling, Mentoring, Training, Contractor Management and Billing, Jira Management, Architectural Design, Code Reviews, CICD, Security Review.
- Created an engineering culture with an exceedingly high bar for quality, ownership and bias for action, enabling and guiding experienced developers to develop high-quality software within a metrics-driven Agile practice.
- Supported, coached, and mentored Engineers and Leads and provided feedback on software architecture designs and implementation of new products and features.
- The **Installer Toolkit App** provides a simple workflow to perform a successful installation of solar systems (IQ Gateway connectivity, Micro Inverters, IQ Battery, Generator, EVSE, **Activation Revamp**).
  - Steps includes - Creating sites | Adding devices and Arrays | Gateway connectivity using AP mode / WiFi / Bluetooth | Provisioning Devices | Functional Validation | Report Generation | Post commissioning workflows. Current appstore/playstore ratings - 4.2
    - Appstore link -> https://apps.apple.com/us/app/enphase-installer-toolkit/id1452583697?platform=iphone
    - Playstore link ->https://play.google.com/store/apps/details?id=com.enphase.installer&hl=en_IN&gl=US&pli=1
  - **ITK TechSupport AI** : Design and Implementation of chatbots for customer service and technical support using **Generative AI**

McAfee Software Private Limited, Bangalore, India   Oct 2011 - July 2021 (9.10 Years)
Engineering Manager (iOS, Android), Team size: 12+

- Responsible to deliver iOS Security features to direct users as well as customers/partners.
- Architected and Developed **McAfee Mobile Security** on iOS platform from the scratch.
- Integrated multiple SDKs and created a **Device Discovery** and **Telematics Security App.**

- Contributed to WiFi Security, VPN and Device Security - Jailbreak detection,
  Miscellaneous Features like - Secure Vault, File Protect, Contact Backup, Find Device - Location Tracking, Alarm, Track iPhone and Detect iPhone's battery level using Watch, Connected Home using HomeKit, Analytics (Google Analytics, AppsFlyer, Power BI. Activation (including silent activation using AppsFlyer), Registration and Subscription Modules, Dynamic Branding and Partner Customisation. I n-App Purchase, Logger, Encryption and Decryption Algorithms.
- Responsible for Analytics, Protex Scan and Code centre activities, Licence management, Privacy Review, Security Review and Quality Metrics DoD items.

- **Mobile Security App** Protects your identity and access all-in-one mobile security with McAfee Security. Stay safe online and prioritise your privacy with Secure VPN, Identity Monitoring, and Safe Browsing. Avoid malicious websites when browsing online and receive alerts for security breaches.
  [Rating 4.7 (150+k users ratings) | Appstore Link | 3M downloads | Offers In-App Purchases]

- **Telematics Security App** collects the data from CAR using OBD II dongle using Bluetooth/WiFi and upload to the cloud. Also, collects and calculates Acceleration score, Breaking score, Phone distraction score, speeding score, cornering score, Driving Location Map. This data will be used for vehicle security and safely.

- **Product Management**
  Worked as a Scrum Product Owner (CSPO), Involving - Roadmap Planning | Converting Epics into Stories | Backlog Grooming | Reviewing Product features starting from the CXD | Engineering and Beta/end users comments | Created acceptance criteria and analytics tracking requirements | Generating reports - Analytics | Reviewing AppStore comments, Rating, Partners comments / Feedbacks

eNovate Media Solution Private Limited, Bangalore, India   Dec 2010 - Aug 2011
Technical Leader (iOS), Team size: 6+

- Developed multiple educational applications (eReader) for Pearson client.
- Mentored iOS team - UML Design and iOS App Development

Ness Technology Private Limited, Bangalore, India   July 2009 - Nov 2010
Senior Software Engineer (iOS), Team size: 4

- Developed **CheckMyTrip** Mobile Companion app for iOS. | MERCI Airline Mobile – (Mobile e-Retail Channel Initiative) for Amadeus Private Limited. [Rating 4.5+ Appstore Link]
- Designed and Developed User Interface for TripList, Trip Details, Help/About page. Implemented complex functionalities for sorting Trip segments(Chronological order), Localization, XML parsing, Native iPhone functionalities like phone call, email.
- "PlanMyTrip" is a mobile travel planning software application which I designed as a prototype, to carefully plan, quickly organize and effectively manage our trips. (iPhone/Blackberry/J2ME)

NMS Communication Private Limited, Bangalore, India   June 2005 - July 2009 (4 Years)
Senior Software Engineer (J2ME Mobile, Windows CE Mobile, Symbian OS), Team size: 12+

- Contributed to Full Track Music using Java, XML, Web Services from LiveWire Mobile. Contributed to Design and Development (Authentication, Billing De-Provisioning)

- Contributed to MyCaller Promotion Client - (Hello Tune - Ringback Tone). Contributed to client side implementation of GUI design, SMS Alerts, XML Data encoding, Accessing and Downloading songs. Image processing, Thread handling, Accessing native contacts (PIM). | Java, J2ME, J2ME Polish, XML
- Developed Media Messaging J2ME Client - Prototype
- Developed Peer to Peer Media Sharing App using J2ME Prototype
- Contributed to IMS Client Features - Meeting Request and IMS Voting App | C, C++, UML, MSRP, SIP.

Education
- National Institute of Technology Karnataka, Surathkal (formerly K REC)   2005
  B.E in Information Technology | 72.71% (Distinction in all the semesters)
  Projects : Timetable Automation, CAR Software Systems (.com)

Awards
- Received Spotlight, multiple quarterly team awards from McAfee and Ness Technology.
- Received certificates for initiating McAfee Student Developer Program as part of CSR activities.

Workshops / Seminars / Project guidance as part of McAfee's CSR activities
- CAR Software Systems, IoT, Telematics Security   - https://ajiet.edu.in/news/IOTworkshopReport.pdf
    - National Institute of Technology Surathkal, Karnataka (NITK)
    - Mangalore Institute of Technology & Engineering (MITE)
    - Sanjeeva Narayana Moodbidri Polytechnic (SNMP)
    - AJ Engineering College, Mangalore.
    - Srinivasa Institute of Technology, Mangalore (SIT)
    - NGO : Katalyst, Bangalore (http://katalystindia.org)

Certifications
- **Generative AI** from Google cloud skills boost (Link)
- **CSPO** - Certified Scrum Product Owner from Scrum Alliance
- Services Marketing and Persuasive Communication to B2B Customers from NITK Surathkal.

Personal Information
- Name: Sudarshana Karkala
- Nationality: Indian
- Language known: English, Kannada
- Date of Birth: 23 Sept 1980
- Sex: Male
- Marital Status :   Married
- Address :   F404 Rohan Iksha, Bhoganahalli, Bangalore - 560103

References
Available on request

Declaration: The above information furnished by me is true to the best of my knowledge

Yours truly

Sudarshana Karkala