



Smart Waste

simple, economical, and sustainable waste management through technology

Profile

www.banyannation.com

Industry: Recycling & Waste

Management IoT

Founded: July 2013

Management

Mani Vajipey

Co-founder/CEO

Columbia-Berkeley MBA

Ex-Qualcomm

Raj Madangopal

Cofounder/COO

MS, Robotics

Ex-Engineering Lead, Motricity

Rashi Agrawal

Director (Partnerships)

Columbia MBA

Ex-Country Manager, IIX

Venkat Vaka

Director (Supply Chain)

MBA, IIM Ahmedabad

Ex-Sr. Manager, SKS Microfinance

Bhaskar Kokkiligadda

Tech Lead (Data Intelligence)

IIT Kanpur

Ex-Qualcomm/Microsoft/Oracle

Advisors

Kohlberg Kravis Roberts (KKR)

Closed Loop Fund, NYC

Govt. of Telangana

Investors

Jaideep Khanna, Artha Capital

CIIE, IIM Ahmedabad

Summary

Banyan Nation is an award winning new-age waste management company that is driving 'circular economy' recycling models through technology innovations at each touch point of the recycling and waste management value chain in India.

Banyan has two business units – Banyan Plastic Recycling and Banyan Data Intelligence Technologies. Banyan's plastic recycling is well known for its first of its kind initiatives in automotive 'Bumper to Bumper' recycling with Tata Motors, and Shampoo Bottle recycling with L'Oreal and Unilever.

Banyan's data intelligence platform for waste management is widely recognized as a pioneering solution to integrate informal recyclers, help cities manage waste more effectively by cutting costs and improving operational efficiencies.

Business Background

Mani and Raj quit their careers in the US and founded Banyan Nation in 2013 to solve India's garbage crisis. Banyan was incubated in Columbia Business School's flagship startup program – The Greenhouse Incubator and currently sits out of T-Hub, Hyderabad.

Awards

Featured Innovation, Rockefeller Foundation, CityXChange, 2018 Winner, Circular Economy Award, World Economic Forum, 2018 Winner, Intel and Dept. of Science & Technology Challenge 2.0, 2017 Winner, mBillionth South Asia, 2015

The Product

Banyan is revolutionizing waste management in India by building a smart waste management platform with a wide variety of data intelligence capabilities that offer value to all stakeholders.

Technology Stack

The product is built on open source technologies and libraries.

Core data warehouse - based on MongoDB and PostgreSQL.

Web API layer - built on Node.JS with TypeScript and Loopback 4.

Web frontend - built on Angular 6.

Android apps – built for offline-readiness on API 19.

Data analysis engine - built on various open source Python libraries.



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Team Ethos

We are looking for engineers with a proven track record of

- Excellent programming, debugging and troubleshooting skills with strong focus on delivering high-quality testable code with near-perfect unit/integration test coverage.
- Passion for building high-performing, secure and scalable web platforms and strong sense of ownership of products/services built.
- Collaboration and teamwork to achieve timely product delivery.
- Hands-on experience with development, deployment and maintenance of large-scale live services in the enterprise/consumer space.
- Good understanding of Agile principles and simple design with good communication and presentation skills.

The Position

As 'Senior Software Engineer – Mobile Apps', you will

- Own design and development of the mobile apps for Android and iOS for each of the stakeholder roles.
 - You must have 5+ years of experience building production-level Android apps, with exposure to building mobile apps using cross-platform mobile development frameworks (Xamarin, Cordova, Flutter etc) for iOS.
- Own the development of data survey and collection experiences for data of geographic and temporal significance.
 - You must have developed production-level mobile user experiences for data collection by survey along with location discovery, geocoding etc.
 - You must have developed secure and network-resilient data exchange interfaces with OpenAPI-compliant web API services on mobile devices.
 - You must have experience with building resilience to network availability into the data collection and synchronization modules within mobile apps to ensure offline readiness and data usage optimization.
 - You must have experience with optimizing mobile user experiences on low and middle tier Android devices.
- Research and ensure adherence to industry-standard best practices in mobile user interface design.
 - You must have developed production-level mobile apps based on material design with a proven track record of delivering bug-free, crash-proof, network-resilient, secure and performant Android code.
- Collaborate with other stakeholders to turn requirements into actionable design and development tasks and use your breadth of skills to participate and influence design discussions across the board.
 - You must have worked in small to medium-sized teams using Agile practices, with partial to complete ownership of mobile app development.
- Support and maintain the mobile apps in live deployment – proactively through telemetry and reactively to bug reports.
 - You must have experience with providing live and reactive developer support to deployed mobile apps, along with experience of monitoring app analytics and telemetry using mobile analytics frameworks like Fabric, Crashlytics, Firebase, HockeyApp, AppCenter etc.

Please reach out to Banyan Nation at bkokkiligadda@banyannation.com if you are interested.