BHUMIN BHANDARI
Hybrid Mobile & Web Application Developer
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PROFESSIONAL SUMMARY

Innovative and versatile Hybrid Mobile Developer with over 11 years of experience in designing, developing, and deploying web and mobile applications. Proven expertise in **Ionic, Angular, React Native, Node.js**, and **Flutter**, with solid backend experience in **MongoDB, PHP, and GraphQL**. Known for delivering scalable, user-focused applications, creating reusable components, and contributing to DevOps processes using CI/CD pipelines. Skilled communicator, mentor, and lifelong learner passionate about solving real-world problems through technology.

TECHNICAL SKILLS

Frontend: Ionic (v1-8), Angular (up to v19), React JS/Native, Stencil JS, SCSS, Redux, MobX
Backend & APIs: Node.js, PHP, Apollo GraphQL, MongoDB, MySQL, PostgreSQL
Mobile: Flutter, Cordova, Capacitor, Native Plugins (Camera, OAuth, Analytics)
Cloud & DevOps: AWS, Azure, Firebase, CI/CD (GitHub Actions), Docker (basic), Python (scripts)
GIS & Mapping: ArcGIS, Geofencing, Route Optimization, Custom Map Overlays
Other Tools: Git, Jira, AzureAuth (MSAL), Auth0, Firebase, Branch.io and Adobe Analytics

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PROFESSIONAL EXPERIENCE

Pfizer UK (via TCS - Onsite)
Programmer – I.T. Analytics | Feb 2023 – Present

- Lead support for multiple hybrid apps built with Ionic 7, Angular 17, Node.js, and MongoDB
- Created reusable web components compatible across frameworks
- Integrated CI/CD pipelines and managed app testing on beta OS platforms
- Built custom plugins for Cordova/Capacitor (e.g., Camera, OAuth, PDF viewer)

Tata Consultancy Services (TCS)
I.T. Analyst – Hybrid Mobile Developer | Jan 2021 – Present

- Developed and maintained hybrid apps using Ionic, Angular, Node, and MongoDB
- Automated build processes using Python scripts and GitHub pipelines
- Implemented Adobe Analytics and managed market-specific app deployments

3i INFOTECH LTD
Senior Associate Developer | Jan 2017 – Dec 2020

- Delivered apps for enterprise clients like RTI International and Bhutan Government
- Built features like indoor/outdoor navigation, geofencing, barcode scanning
- Integrated secure authentication with Microsoft Azure AD

EN INTERACTIVE PVT LTD
Web & Hybrid Application Developer | Aug 2015 – Dec 2016

- Developed CMS solutions and hybrid apps using Ionic, Angular, and Laravel
- Created data-driven dashboards and route tracking applications

HOGO WORK SOLUTION / KATALYSTCORP PVT LTD
Web Application Developer | 2014 – 2015

- Developed CRM, POS, and advertising management systems
- Built public-facing websites with PHP, CodeIgniter, Drupal, and WordPress

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KEY PROJECTS

SmartClick mobile app which is currently live on both Android and iOS. It was developed to enhance the experience of using certain medical self-injection devices, helping patients track injections, monitor usage, and seamlessly integrate their health data with mobile devices.

What made this project meaningful to me was the **direct impact on users' health and daily routines**, especially those managing chronic conditions. Knowing that our work could make their treatment experience safer and less stressful gave me a strong sense of purpose.

My role involved **end-to-end mobile development**, including:

- Designing and implementing a user-friendly interface
- Developing Bluetooth connectivity for real-time device integration

- Creating secure data storage and syncing mechanisms
- Implementing notifications and reminders based on the injection schedule

On the technical side, one of the key challenges was ensuring **reliable Bluetooth communication** across different Android and iOS devices, while maintaining power efficiency and data integrity. We had to carefully architect the data layer to manage both online and offline states, as patients might not always have internet access.

We also made key architectural decisions around **modularizing the codebase**, allowing different injection devices to plug in with minimal changes. This required thoughtful separation of concerns and testing strategies to ensure scalability and maintainability as the product evolved.

Collaborating closely with the medical device team and designers helped us align technical implementation with patient needs. Seeing the app go live and receive positive user feedback was incredibly rewarding.

LivingWith Cancer App:

One of the most meaningful projects I've worked on is the **LivingWith Cancer App**, a multilingual and multimarket mobile application designed to support cancer patients and their caregivers. It's available on both Android and iOS platforms and was developed with the goal of making life during and after treatment more manageable.

The app provides resources, tools, and emotional support for people affected by cancer helping them track symptoms, manage appointments, organize care plans, and communicate with loved ones.

My role in this project included:

- Leading the **Ionic Angular 19 with Capacitor based mobile development** to ensure consistent cross-platform performance
- Implementing multilingual support and **localization** to make the app accessible in different languages and regions.
- Integrating secure APIs for managing user data while ensuring **compliance with privacy standards** (like HIPAA/GDPR where applicable)
- Developing personalized features like symptom tracking, journal entries, and shared care updates for caregivers

One of the key challenges was designing a **compassionate and accessible UX**, considering the emotional and physical states of users. We worked closely with healthcare professionals and patients to validate user flows and feature design, ensuring the app was truly helpful without being overwhelming.

This project was especially fulfilling because of its **real human impact**. Contributing to a tool that helps people navigate such a difficult time in their lives gave the work a strong sense of purpose and reminded me of why I love building thoughtful, user-centered products.

Shling Shopping App:
Another project I'm proud of is the **Shling Shopping App**, a lifestyle e-commerce platform built with **Flutter** and integrated with **Shopify**. It's live on both Android and iOS, and offers a shopping experience inspired by platforms like TEMU and SHEIN.

One of the standout aspects of this project is that it was built to be **fully dynamic and configurable via remote settings**. This means nearly every aspect of the app including UI layouts, colors, banners, featured products, categories, and more can be updated in real-time without requiring a new deployment to the app stores. This flexibility empowers non-developers or admins to customize and manage the app experience easily based on seasonal needs, promotions, or business logic.

My contributions included:

- Building the entire mobile front-end using **Flutter** with a clean, modular architecture.
- Integrating deeply with **Shopify's APIs** for secure and efficient product browsing, checkout, and order management.
- Implementing a **remote configuration system** using Firebase Remote Config and custom backend endpoints.
- Enabling dynamic content management for banners, themes, sections, and offers without redeployment.
- Adding features like push notifications, flash sales, and personalized product feeds

One of the biggest technical challenges was balancing this high level of flexibility with performance and stability. I had to carefully architect the app to fetch, cache, and apply remote settings in a way that wouldn't disrupt the user experience, even in low-connectivity scenarios.

This project was meaningful to me because it showcased how thoughtful engineering and smart tooling can empower businesses to **scale and iterate quickly**, all while keeping the user experience fast, polished, and reliable.

RTI International Meeting Room App:

Another project I had the opportunity to work on was the **RTI International Meeting Room App**, developed for a large U.S.-based research institute. The goal of the app was to **streamline meeting room scheduling** and enhance **indoor navigation** across a large corporate campus creating a smarter and more efficient workplace experience.

This app was built for both Android and iOS, and integrated complex features like **real-time room booking**, **indoor navigation**, and **location-based geofencing**, leveraging **ArcGIS** for advanced spatial data management.

My Role & Key Responsibilities:

- **Led the development of core features** including room scheduling, interactive indoor maps, and real-time location tracking.
- Integrated **ArcGIS SDKs** to power floor maps, room layouts, and indoor routing.
- Implemented **geofencing** to trigger notifications when users approached meeting zones or entered restricted areas.
- Developed a **custom calendar sync** with the organization's internal scheduling system to show real-time room availability and allow one-tap booking.
- Designed an intuitive UI/UX to make navigation across multi-floor buildings simple, even for first-time visitors.

Key Technical Challenges:

One of the biggest technical challenges was handling **accurate indoor positioning** in GPS-limited environments. We used a combination of **Wi-Fi-based location estimation** and ArcGIS's indoor routing tools to ensure users could find meeting rooms efficiently.

Another challenge was creating a **responsive and scalable indoor mapping system**, where room layouts could change without the need to update the app. This required syncing spatial data from the ArcGIS server and dynamically rendering room states in the app.

We also had to design the app with **access control and data security in mind**, ensuring that only authorized employees could book or view certain rooms, which was handled through secure token-based authentication and role-based permissions.

Why It Mattered:

This project was especially satisfying because it solved real-world workplace pain points—lost time finding rooms, double bookings, and visitor confusion in large campuses. It also allowed me to dive deep into **location-aware technologies**, which was a valuable learning experience in building smart, context-aware applications.

University Portal Development:

Developed a comprehensive **university portal** designed to manage student-related activities such as **fees, attendance, and results**. The portal also included an integrated **payment gateway** for seamless fee payments. Key features included:

- **Fee Management**: Allowing students to view and pay their tuition fees online with secure payment processing.
- **Attendance Tracking**: Enabling faculty to record and track student attendance, with automatic notifications to students for missed classes.
- **Result Management**: Facilitating the entry, display, and analysis of student results, ensuring accuracy and easy access for students and administrators.
- **Payment Gateway Integration**: Implemented a secure and efficient online payment system, ensuring smooth transactions for fee payments.

This system enhanced operational efficiency for university administrators and improved the user experience for students by providing easy access to important academic information.

Analytics Dashboard for AndBeyond.Media

Developed an advanced **analytics dashboard** for **AndBeyond.Media** that streamlined the management of advertising tools. The dashboard provided real-time insights into ad performance, user engagement, and revenue metrics. Key features included:

- Integration with multiple data sources for unified reporting.
- Customizable data visualizations and filters for tracking KPIs.
- Automated report generation and export functionality.
- User role-based access control for secure data handling.

The dashboard enabled the marketing team to make data-driven decisions, optimizing ad placements and improving campaign performance.

Restaurant Point of Sale (POS) System:

Developed a comprehensive POS system for independent restaurants, designed to streamline operations and enhance the customer experience. Key features include:

- **Order Management**: Efficient handling of orders from customers, including **real-time updates** to the kitchen and reception staff.
- **iPad Support**: Enabled waiters to take orders and process payments directly from iPads, improving speed and accuracy.
- **Payment Processing**: Integrated **payment gateway** to securely process customer transactions.
- **Real-Time Updates**: Automatic synchronization of order statuses, ensuring that kitchen and front-of-house staff are always aligned.
- **Tips Functionality**: Included an option for customers to add tips for waiters, improving service staff compensation.

Additional Projects

- **Cortex**
  An AI-powered tool for full-stack developers to optimize and customize code.
  Technologies: ReactJS, Ruby on Rails, PostgreSQL, Tanjo AI (tanjo.ai).

- **Gradializer Mobile App**
  A mobile app designed for parents to track student attendance, results, and other academic activities.
  Available on: Android.

- **Corvi LED Shopping Mobile App**
  Geolocation-based app for tracking retailer vehicle routes and managing product availability, available exclusively within the organization.

- **MakShoppe Shopping Mobile App (UAE based)**
  E-commerce platform with **Cash on Delivery (COD)** and **Takeaway** features for a seamless shopping experience.
  Available on: Playstore and Appstore.

- **BargainCry Shopping App**
  A shopping platform featuring **Payment Gateway**, **Wallet Integration**, and **Mobile Payments**.
  Available on: Playstore and Appstore.

- **CRM Software for Call Centers**
  A CRM solution for call center organizations, including **bulk SMS** sending capabilities for real-time communication.

- **Restaurant Website** (Biryani House Uganda)
  A dynamic restaurant website developed using **AngularJS**, providing a seamless user experience and menu integration.

- **Advertisement Management System**
  A system that allows users to manage ads and view daily reports of **pay-per-click** performance.

EDUCATION

M.C.A. – Master of Computer Applications

Gujarat Technological University, Vapi | 2013

B.C.A. – Bachelor of Computer Applications

Veer Narmad South Gujarat University, Bilimora | 2010

CERTIFICATIONS & EXTRAS
Flutter Development
Contributor to GitHub Plugins and Stencil Components