Aproop kumar saggam

⚲ Marietta, United States ✉ aproopkumars@gmail.com 📱 +1(203)5443311 🔗 in/aproop-saggam-351347135

SUMMARY

Experienced Full Stack Developer with 8+ years of expertise in building scalable, cross-platform and customer-facing applications across cloud, mobile, and IoT domains. Proven ability to lead Agile development in regulated industries including healthcare, automotive, industrial and finance. Strong advocate for clean code, test automation, and CI/CD practices using Azure and AWS.

EXPERIENCE

LivaNova PLC   **June 2022 - Present**
Senior Full Stack Developer, Remote (Atlanta)

Project: VNS Clinician App
Developed a cross-platform mobile application enabling clinicians to safely simulate, configure, and monitor Vagus Nerve Stimulation (VNS) therapy for patients with drug-resistant epilepsy.

- Developed front-end mobile UI using .NET MAUI for Android tablets used by clinicians to simulate and manage Vagus Nerve Stimulation (VNS) therapy.
- Designed and maintained backend WPF Console app logic for executing device-related interaction commands.
- Integrated COM/BLE protocols (STLV, TLV, and CIP) to communicate with Implantable medical devices.
- Collaborated with cross-disciplinary teams, including device engineers and clinicians.
- Supported CI/CD with Azure Pipelines and nightly build automated test runs.
- Created Azure DevOps pipelines to automatically build, code-sign, and deploy the Android app to designated test devices using Samsung Knox.
- Participated in defect triaging to resolve critical issues reported by clinicians during live therapy sessions.

Project: Epsy Hub Portal
Created a Clinician-facing web portal to support patient management and VNS therapy monitoring. The application enables clinicians to track seizures, upload recommendations, and manage therapy logs securely.

- Built and modernized the VNS therapy tracking portal using React, Redux, and Material UI.
- Implemented Darkly feature flags and AWS Amplify + GraphQL APIs.
- Designed PDF upload and doctor-patient management features.
- Supported and deployed services on AWS for telemetry ingestion and device logs storage.
- Implemented clinical authentication mechanisms using AWS Cognito to ensure secure access for healthcare professionals within cross-platform mobile and web applications.
- Used Terraform for infrastructure provisioning and management across multiple AWS environments, ensuring consistent and repeatable deployments.
- Leveraged AWS Vault for securely managing access to AWS credentials and rotating secrets during development and deployment.
- Integrated with RDS and DynamoDB for transactional and NoSQL data requirements.
- Streamlined clinician onboarding and support workflows in Epsy Hub Portal by implementing role-based access controls and automated audit logging for sensitive user actions.

Deloitte Consulting LLC   **April 2019 - June 2022**
Solution Specialist - Gilbert, AZ

Project: Internal Xamarin Communication App
Built a Xamarin.Forms application for Deloitte leaders to manage meeting agendas, communications, and priorities across departments.

- Implemented Xamarin.Forms UI with swipe gesture actions.
- Integrated authentication via Microsoft Graph API.
- Decrypted asynchronous PDF streams for secure document sharing.

Project: State Health Care Modernization
Developed a cloud-native analytics and reporting platform to automate Medicaid CMS-64financial submissions across state and federal agencies.

- Developed responsive UIs using ReactJS, FusionJS with respect to Figma-based mockups.
- Engineered cloud-native microservices in Node.js, hosted on Docker containers in AWS.
- Created and optimized database schemas in PostgreSQL and Redshift to support analytics and reporting.
- Designed and consumed REST APIs with a strong focus on stateless design and error handling.
- Incorporated the software design pattern MVVM.
- Developed Web API using Node.js and hosted on multiple load-balanced API instances.

Siemens Industry   **Oct 2018 - Mar 2019**

Senior Mobile Developer - Grand Prairie, TX

Project: SmartGear Mobile

Developed a cross-platform mobile app for monitoring and managing Siemens SmartGear® switchgeardevices. The app delivered real-time diagnostics, alerts, and preventive maintenance notifications to improve electrical infrastructure reliability.

- Built Android and iOS apps with Xamarin.Forms using the MVVM pattern.
- Established real-time IoT interaction via Socket.IO and JSON polling.
- Integrated WPA2 MODBUS security for local device access.
- Implemented biometric authentication and SNS push notifications using AWS.
- Used Syncfusion plugin to display Graphs, CustomMenuPage, sfListView, 3d metering graphics based on readings from the smartGear device.
- Processed and displayed live LVS data—including breaker status, meter readings, and alarms—using data-binding features in Xamarin.Forms with MVVM architecture.

National Life Group   **Sept 2017 – Sept 2018**

Mobile Application Developer - Montpelier, VT

- Developed and published the company's first cross-platform mobile app using Xamarin.Forms.
- Incorporated secure login (OAuth, MFA), SQLite local storage, and SkiaSharp charting.
- Ensured accessibility with automation properties and TTS compatibility.

Toyota Motor Sales, INC   **Mar 2017 – Aug 2017**

Mobile Application Developer - Torrance, CA

- Delivered the Lexus Drivers App for Android/iOS using Xamarin.Forms.
- Built VIN barcode scanning, push notifications, SQLite integration, and analytics tracking.
- Followed MVVM pattern, implemented Hockey App distribution, and integrated Google Maps.

EDUCATION

Master of Science in Computer Science

Southern University and A&M College • Baton Rouge, LA • 2016 • 3.7

Bachelor of Technology in Computer Science

Chilkur Balaji Institute of Technology, JNTU • India • 2014 • 3.5

SKILLS

Languages & Frameworks: C#, JavaScript (ES6), Java, Python, TypeScript, React, Node.js, .NET, ASP.NET MVC, Xamarin.Forms, Xamarin.Android, Xamarin.iOS, AngularJS, FusionJS

Cloud & DevOps: AWS (Lambda, API Gateway, S3, Cognito, Amplify), Docker, Azure DevOps, Terraform, CloudFormation.

Mobile Development: Xamarin.Forms, MAUI, Native/Hybrid apps, MVVM, Bluetooth/COM device integration

Data Persistence: PostgreSQL, SQL Server, DynamoDB, Redshift, SQLite, S3 data lake

Testing & Tools: Jest, Mocha, JEST, Knex, Postman, Swagger, Figma, Git, GitLab, Jira, Visual Studio, VS Code

Version Control & CI/CD: Git, GitHub, Jenkins, Azure, AWS

Operating Systems: Windows, Linux

PORTFOLIO

- App Mock Links:
  - Lexus Driver App: https://xd.adobe.com/view/d5bde3b5-e412-4db4-b0ff-96891b7d5c46/screen/76775549-b6ad-4242-b6b3-9da63aa2a6b9/1-Landing-Logged-In-Vehicle-Account-VIN/
- App Store Projects:
  - Smart Gear Mobile App: https://www.siemens.com/us/en/products/energy/low-voltage/smart-technology/smart-mobile.html
  - SmartGear Mobile User Manual: https://s3.amazonaws.com/dcc-data-extract/new-delta/asset/Compas/daily/Compas/Selection%20Application%20Guide/SIE_BR_SmartGearMobile.pdf?290125
  - National Life Group: https://itunes.apple.com/us/app/national-life-group/id1358518929?mt=8
  - Lexus Drivers App: https://apps.apple.com/us/app/lexus/id1468484450
- Play Store Projects:
  - National Life group App: https://play.google.com/store/apps/details?id=com.nlgroup.nationallife
  - Lexus drivers app: https://play.google.com/store/apps/details?id=com.lexus.oneapp&hl=en_US
- Web Site Projects:
  - Epsy Portal: https://support.epsyhealth.com/hc/en-us