

ABHINEETH N

+91 9869635737 · just.neeth@gmail.com · github.com/Neeth-N · linkedin.com/in/neethn

SUMMARY

Mobile engineer with 18+ months of production internship experience building Flutter applications across iOS and Android. Sole owner of the WebGL/heatmap rendering layer in a warehouse asset-tracking system. Deep hands-on expertise in Swift CoreBluetooth, BLE beacon protocols (iBeacon, GATT), BLoC state architecture, and Firebase real-time data systems. Shipped production-grade apps from architecture through deployment. CGPA: 7.95 · Graduating B.Tech Computer Science & Engineering, June 2026.

TECHNICAL SKILLS

Languages: Dart, Swift, JavaScript, TypeScript, HTML, CSS

Mobile: Flutter (iOS & Android), iOS SDK, CoreBluetooth, BLoC, Platform Channels, iBeacon

Web / Rendering: React, WebGL, Leaflet.js, Heatmap rendering, Canvas export pipelines

Backend & Cloud: Firebase Firestore, Firebase Authentication, REST APIs, Google Cloud (Firebase)

Databases: SQLite, Hive, MySQL, PostgreSQL

Protocols: BLE 4.x / 5.x, GATT, iBeacon, UUID advertising

Tools: Xcode, Android Studio, Git, GitHub, Framer, ESC/POS (thermal printing)

PROFESSIONAL EXPERIENCE

Software Development Intern · Logixmotion Pvt. Ltd.

Nov 2024 – Present

- Sole owner of the WebGL and heatmap rendering layer in a warehouse indoor asset-tracking platform responsible for all map rendering decisions, zone node-snapping logic, and visual data export pipelines across the full production lifecycle.
- Engineered a `waitForTabVisible()` lifecycle utility that resolved rendering inconsistencies across multi-tab map views, preventing silent paint failures on tab-switch in production.
- Contributed 134 commits across the codebase; rated highest in domain understanding of the map/rendering system among all contributors, with predominantly human-authored, maintainable code.

Flutter Development Intern · Hue Solutions

Jun 2024 – Aug 2024

- Built and delivered Flutter UI screens for a production mobile app using BLoC state management; translated wireframes into production-ready interfaces in direct collaboration with the design team.
- Applied widget lifecycle management and stateful restoration patterns, improving rendering consistency across app sessions (~20% estimated reduction in rebuild cycles).

Web Developer · Google Developer Student Club, CEAL

2023 – 2024

- Developed and shipped interactive web applications for club events using React, JavaScript, and TypeScript across 2+ delivered projects.
- Collaborated across a cross-functional developer team on both front-end UI and back-end integration.

PROJECTS

EMS Connect - Flutter BLE Emergency Beacon System

Flutter · Dart · Swift · CoreBluetooth · Firebase Firestore · BLoC · iBeacon

- Architected a dual-platform emergency alerting system integrating BLE beacons into a shared Flutter codebase, enabling real-time distress signals across iOS and Android at beacon proximity.
- Engineered a Swift CoreBluetooth persistence layer using UUID-A/UUID-B iBeacon switching to reliably relaunch a force-quit iOS app at beacon entry a technique that bypasses standard iOS background execution limits without `AccessorySetupKit`.
- Designed a 3-stream BLoC state architecture separating BLE events, authentication, and alert display into independently testable domains, enabling parallel development of each layer.

- Hardened Firebase Firestore with layered security rules and real-time snapshot listeners across multiple simultaneous clients, maintaining consistent alert state under concurrent access.
- Built the complete UI from scratch beacon discovery, live alert dashboards, and authentication flows without any component library.

Ess Enn's Paradise - GST Invoice Generator

Flutter · Dart · SQLite · Hive · flutter_pdf · ESC/POS

- Built a production billing app for a live retail business, pixel-matching a custom GST-compliant invoice layout across both digital PDF and physical thermal print output.
- Unified flutter_pdf generation and direct ESC/POS thermal printing into a single output layer, eliminating external tooling dependency for physical invoice delivery.
- Implemented real-time tax calculation across 4+ product categories with itemised fields and running totals; all records persisted in SQLite and Hive for full offline resilience.

Android Auto Head Unit - Embedded Systems Research

ADB · Android Firmware Analysis · Embedded Debugging · Linux

- Reverse-engineered a Plimpton L1 Android Auto head unit, identifying ADB endpoints, Device Manager signatures, and firmware structure through non-destructive investigation without physical disassembly.
- Documented a reproducible method for overriding firmware-level Android Auto mode locks to repurpose the proprietary display as a secondary general-purpose Android screen.

Fintrax - Personal Finance Tracker

fintrax.framer.website

Flutter · Dart · Firebase Firestore · Framer

- Shipped a cross-platform personal finance tracker with categorised transaction logging, real-time Firebase sync, and visual spending breakdowns, deployed on iOS and Android.

Chatz - Real-Time Chat Application

github.com/Neeth-N/Chatz_app

Flutter · Dart · Firebase Firestore

- Built a multi-user real-time chat application using Firebase Firestore, supporting persistent message history and live delivery across iOS and Android.

EDUCATION

B.Tech - Computer Science & Engineering

2022 – 2026

College of Engineering Attingal (APJKTU), Thiruvananthapuram, Kerala · CGPA: 7.7

Senior Secondary - Computer Science (Class XII)

2022

Kendriya Vidyalaya No. 2, Vasco, Goa