prem@mumbai:~$ whoami

Prem Poddar

// software developer, building for Android, iOS, macOS and the web



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Computer Science student (BSc, graduating 2027) with three paid software roles behind me: building iOS and Android apps around a C++ ECG engine for a medical education company, building a healthcare website for a physicians' college in Spain, and testing underwater communication systems for a research client. I also build and publish my own apps for Android and Mac.

01 experience

2026.06 → 2026.08 **Cross-Platform Engineer, iOS and Android** @ Medical education platform (contract)
Independent contractor for Marco Cebrián Muiño and Francisco Javier Miana, Zaragoza, Spain (remote)

- > Creating a new proprietary C++ ECG engine from scratch, running as a single shared core on both iOS and Android.
- > Building the native Swift and Kotlin applications around it, covering three product modules: Simulate, Practice and Learn.
- > Implemented English and Spanish localisation with automatic device-language selection, and prepared App Store and Google Play publication assets plus the product landing site.

2025.11 **Full-Stack Web Developer** @ Official College of Physicians of Zaragoza
Zaragoza, Spain

- > Designed and shipped ejercicioysalud.org, the college's public platform for clinical exercise-prescription guidance for cardiovascular patients, delivered production-ready in a two-week engagement.
- > Structured the site architecture and content model around multilingual educational material, clinical guides and embedded video training modules.
- > Built a responsive, accessible front end to institutional standards and handed over a maintainable codebase for the college's ongoing use.

2025.08 **Embedded Systems Research Engineer** @ Pablo Gómez Ochoa
Spain

- > Evaluated commercial underwater acoustic communication systems against operating conditions, range and reliability requirements for an integration decision.
- > Wrote structured test methodologies characterising signal behaviour, environmental sensitivity and system reliability across configurations.

> Consolidated results into a feasibility and cost comparison that drove the client's vendor selection and deployment strategy.

02 projects $ ls ~/apps

LibreChat

android

Messaging without internet

Lets people text each other where there is no signal, such as at a festival, on a hike or during a power cut. Phones pass messages along over Bluetooth until they reach the right person. Fully encrypted chats, groups, photos and voice notes. Built with outside contributors.

→ prempoddar.github.io/LibreChat

Duet

android

Listen to music together

Plays the same song on up to eight phones at exactly the same moment, on the same sofa or in different cities. Join with six words or a code; everyone can add songs, vote, pause or skip. Works with YouTube. No account needed.

→ prempoddar.github.io/Duet

OAF

android

Open All Files: one app for every file

Opens and edits almost any file on a phone: PDFs, Word, Excel, slideshows, e-books, zip files, photos, music and video. Sign PDFs, scan documents, edit spreadsheets with formulas and reach files on home or office drives. No ads.

→ prempoddar.github.io/OAF

Loadstone

android

Find your way back, on Google Play

Save a spot, like your parked car, a campsite or a meeting point, and an arrow guides you back to within about 3 metres. Works with no internet and no maps, under 2 MB, and collects no data about you.

→ prempoddar.github.io/Loadstone

Campfire

android + web

Instant group chat for a room

One phone starts a chat room and everyone nearby joins from their own browser by scanning a QR code, with nothing to install and no internet needed. When it ends, every message disappears.

→ prempoddar.github.io/Campfire

CaffeinateCat

macos

Keep your Mac awake, open source

A small menu-bar app that stops a Mac from going to sleep, even with the lid closed, so downloads and long tasks keep running. Set a timer or switch it off and the Mac goes back to normal.

→ prempoddar.github.io/CaffeinateCat

Brewlight

macos

Spotlight-style app store for Homebrew, open source

A fast Mac app for finding and installing developer tools and apps: type what you want and it searches 16,000 packages instantly, then installs, updates or removes them in one click. Removes apps completely, including leftover files, explains warnings in plain language, and is available in six languages.

→ prempoddar.github.io/Brewlight

03 skills

```
let skills = {
   languages: ["Java", "C++", "C", "C#", "Swift", "JavaScript", "Kotlin", "Python",
   "Rust", "PHP", "R"],
   web: ["HTML", "CSS", "React", "Vue", "Next.js", "Spring Boot", ".NET", "REST APIs",
   "Responsive and accessible front end"],
   mobile: ["Jetpack Compose", "ExoPlayer", "Bluetooth LE", "Wi-Fi Aware", "WebRTC",
   "Ktor"],
   platforms: ["AWS and cloud", "macOS", "Windows", "Linux"],
   data: ["SQL", "MySQL", "Oracle DB", "MongoDB", "NumPy", "pandas"],
   hardware: ["Electronics programming", "Circuit building", "Embedded system testing"],
   process: ["Requirements gathering", "System integration", "Test methodology", "App-
   store release", "Maintenance handover"],
   speaks: ["English", "Spanish", "Hindi"]
};
// still growing
```

04 how_i_work

- [x] Talk directly with clients about requirements, scope and progress, whether they are managers, doctors or engineers.
- [x] Turn what a client asks for into a clear plan both sides agree on. If the budget, deadline or technical limits change, I explain the options and what each one costs.
- [x] Have built complete products on my own, and am comfortable leading a small team towards a release.
- [x] Consider cost, licensing and delivery when making recommendations, not only the technical side. The underwater systems project was a purchasing decision as much as a technical one.
- [x] Stay involved after launch: deployment, App Store and Google Play releases, and ongoing maintenance of software and hardware.

05 education

2027

BSc Computer Science @ Mithibai College, Mumbai
CGPA 8.62 / 10
Took part in Smart India Hackathon