

Engineering leader with seven years building EV charging infrastructure software. Implemented OCPP 1.6J and OCPI 2.2.1 from the specification up in Java and Spring Boot, architected a CPMS that ran 1,000 chargers, and led the team that built it. Close enough to the protocol to catch ambiguity in a spec, close enough to delivery to ship the release that fixes it.

CORE COMPETENCIES

OCPP 1.6J and OCPI 2.2.1 from Spec	Distributed Real Time Systems	Multi Tenant SaaS Architecture
Java and Spring Boot at Scale	WebSocket and Event Driven Design	Team Leadership and Code Review

PROFESSIONAL EXPERIENCE

Software Product Line ManagerENERGIC

May 2026 – Present | Remote

- Own the technical direction of three products on a multi tenant SaaS platform, Device Hub, Network for CPOs, and Mobility for eMSPs, plus the ChargeX driver app.
- Designed the OCPI 2.2.1 integration behind 5 connected roaming partners: MongoDB as source of truth with Redis cache aside and pub/sub, targeting 500 concurrent users at p99 under 20ms.
- Ran an OCPP 1.6 conformance gap analysis and produced the OCPP 2.0.1 migration plan, covering security profiles and the message model.
- Author the technical specifications engineering builds from: tariff resolution and per period pricing, RFID and business account billing, vendor error code mapping, and multi currency settlement.

OCPP ConsultantTransond System Private Limited

January 2026 – April 2026 | Remote

- Advised the engineering team on OCPP 1.6J, resolving specification ambiguity into concrete message flows, connector state handling, and error paths.
- Reviewed CMS architecture, data model, and operator workflows for scalability and reliability at fleet scale.

Software Development ManagerVolltic (Tvesas Electric Solutions Pvt. Ltd.)

August 2021 – November 2025 | Remote

- Led a team of 5+ engineers on architecture, code review, releases, and production support for a CPMS running 1,000 chargers at peak on AWS.
- Billing engine:** built a multi model B2B billing engine on Spring Boot and MySQL generating 200+ invoices a month across CAPEX and OPEX contracts, with tax calculation and payment reconciliation.
- OCPI 2.2.1:** implemented the full protocol including credentials handshake, locations, sessions, CDRs, tariffs, and token authorisation for roaming with external eMSPs.
- Telematics platform:** architected a real time monitoring system over WebSockets streaming battery state, GPS, and charger status, with rule based alerting.
- Cross network payments:** built a payment and messaging layer between independent charger owners for 24 hour cross network charging.

Software EngineerVolltic (Tvesas Electric Solutions Pvt. Ltd.)

February 2019 – August 2021 | Remote

- Implemented OCPP 1.6J over Java WebSocket from the specification: core profile, remote trigger, firmware management, local auth list, reservations, smart charging.
- Built the CPMS backend and operator console from scratch: live charger tracking, tariffs, remote operations, OTA firmware upload, QR activation, third party APIs.
- Wrote a desktop charge point simulator reproducing real charger behaviour and edge cases, enabling protocol regression testing without hardware.

TECHNICAL SKILLS

Languages and Frameworks	Java, JavaScript, C, Spring Boot, J2EE, Hibernate, JPA, React, Bootstrap 5
Protocols	OCPP 1.6J, OCPP 2.0.1, OCPI 2.2.1, WebSocket, REST, HTTP, TCP/IP
Cloud, DevOps, Data	AWS (EC2, S3, RDS, ElastiCache, ALB, Route53), Jenkins, CI/CD, MySQL, MongoDB, Redis
Testing and Tools	JUnit, Selenium, JMeter, Postman, Wireshark, Git, Maven
Architecture	Real time and event driven systems, multi tenant SaaS, billing and settlement, CPMS design

EDUCATION

B.E. in Computer Science and EngineeringSGSITS, Ujjain, M.P

2014 – 2018