



Shoaib Yusuf Hubab

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ABOUT ME

Software Engineer with 2+ years of experience specializing in Telecom systems, EV Charging platforms and IoT solutions. Skilled in Go, Python, microservices and cloud-native development with proven expertise in AAA protocols (RADIUS, Diameter, Nchf), OCPP compliance and subscription/payment integrations. Developed LLM-based assistants and contributed to AI-driven projects leveraging RAG architecture. Strong background in Agile practices, delivering scalable and high-quality solutions through iterative development and collaboration. Recently admitted to the Master's in Electromobility-ACES program at Friedrich-Alexander University, combining a solid foundation in electrical engineering with hands-on project experience.

WORK EXPERIENCE

 **BLUEOCEANDIGITAL INDIA PVT. LTD.** – COIMBATORE, INDIA

SOFTWARE ENGINEER – 01/07/2023 – CURRENT

Telecom Solutions & Protocols:

- Designed & implemented AAA protocol integrations in Go.
- Developed PCRF & Diameter Gateway with concurrent processing for higher throughput.
- Performed real call-through testing of Diameter Gateway with UMP for clients including Cisco (PGW integration), Mobi - Telecom, US Cellular, OneBill.

EV Charging & OCPP Platforms:

- Built OCPP 1.6 & 2.0.1 compliant CSMS backend.
- Integrated CSMS platform with BOLT, SPARKCONNECT and RIOD clients.

Payments, AI & Automation:

- Integrated Stripe & Razorpay for subscription & billing workflows.
- Developed an LLM-based assistant in Python integrated with OCS for pricing support.
- Automated deployment pipelines using GitHub Actions and CI/CD.
- Performed BDD-driven API automation testing.
- Applied Cypress & Playwright for end-to-end UI web application testing.
- Deployed & monitored services with Docker, Kubernetes, Grafana.

 **BLUEOCEANDIGITAL INDIA PVT. LTD.** – COIMBATORE, INDIA

SOFTWARE ENGINEER INTERN – 15/12/2022 – 30/06/2023

- Developed REST API's for subscription management with MongoDB.
- Contributed to OCPP protocol implementation in Go.
- Participated in BDD & API testing with Cucumber and Cypress.
- Designed Swagger-based API documentation.
- Worked with Linux environments for development and deployment.

EDUCATION

Incoming Student - 09/2027

M.Sc Electromobility-ACES | Friedrich-Alexander University of Erlangen-Nuremberg |

14/07/2019 – 08/05/2023 Coimbatore, India

B.E. Electrical & Electronics Engineering | Sri Ramakrishna Engineering College |

CGPA: 8.22/10

HACKATHON PROJECT

AI Chatbot (BlueOceanDigital India Pvt. Ltd.)

- Designed an AI-powered chat interface for documentation & code-related queries.
- Implemented RAG architecture using Python (Django) with PostgreSQL for ingestion and fast retrieval.
- Built chat interface capable of handling both documentation & code-related queries.

PROJECTS

12/2022 – 05/2023

Uniform SOC Maintenance for 4WD Electric Vehicles

Developed SOC balancing system for EV battery packs with Carrier-Based PWM and dual VSI system.

01/2022 – 05/2022

Gas Leakage Detection and Alert System

IoT-enabled detection system with MQ-2 sensor, NodeMCU and automated SMS alerts.

01/2021 – 05/2021

Pesticide Spraying Robot

Autonomous agricultural robot with Arduino Uno, sensors and obstacle avoidance.

PUBLICATIONS

2024

[Power Balancing in Four-Wheel Drive EV Using Carrier-Based PWM with Two-Level Inverter Fed Drive](#)

Published in Springer (International Conference on Intelligent and Smart Computing in Data Analytics, 2024). Proposed SOC balancing and energy-efficient design for multi-battery EV systems.

SKILLS

- **Programming & Frameworks:** Golang (Go), Python, Django, REST API's, gRPC, GraphQL, HTML, CSS, Javascript
- **Database:** MongoDB, PostgreSQL
- **Telecom Systems:** AAA Protocols (Radius, Diameter, NChF), BSS/OCS, PCRF
- **EV Charging Systems:** OCPP 1.6 & 2.0.1, Web socket Protocol, CSMS client Integrations
- **Cloud & DevOps:** Docker, Kubernetes, AWS, GitHub Actions, CI/CD
- **Testing & QA:** BDD (Cucumber), Cypress, Playwright, API Testing
- **Architecture & Integrations:** Microservices, MVC, Kafka, Payment Integrations (Stripe, Razorpay), Webhook, LLM & RAG Systems
- **Productivity & Analytics Tools:** Microsoft Word, PowerPoint, Excel, Power BI

CERTIFICATIONS

Technical Certifications: Golang (Go), Docker & Kubernetes, MongoDB, Websockets (Go), Cypress Automation - Udemy

Academic & Language Certifications: IELTS, GRE

LANGUAGE SKILLS

Mother tongue(s): **TAMIL**

Other language(s): **ENGLISH | GERMAN**

HONOURS AND AWARDS

06/04/2023

Department Representative – Sri Ramakrishna Engineering College: Represented the department, coordinating student placement activities and academic initiatives.

16/09/2024

Alumni Interaction Program Speaker – Sri Ramakrishna Engineering College: Invited as guest speaker to share professional experience and insights with students.

HOBBIES AND INTERESTS

Area of Interest

Automotive technologies, Telecommunication systems and IoT Solutions - with a focus on AAA, OCPP Protocols, electric vehicles, autonomous driving, connected mobility, cloud-native platforms and software-driven innovations.

Hobbies: Badminton, Simulation Gaming, Analytical puzzle solving, Exploring advancements in automotive technologies and experimenting with emerging software technologies (AI, cloud, open-source projects).