

Dheeraj C.

github.com/tomlin7

linkedin.com/in/initdhee

[Personal Website](#)

dheerajofficial@gmail.com

+91-8304981017

Bangalore, India

[Work Portfolio](#)

Education

• Birla Institute of Technology, Mesra

Bachelor of Technology in Computer Science and Engineering (CGPA: 8.42 / 10.0)

2023 – 2027

Ranchi, India

Relevant Coursework: Data Structures & Algorithms (DSA), Operating Systems, Database Management Systems (DBMS), Systems Design, Artificial Intelligence and Machine Learning (AI&ML), Software Engineering, Object Oriented Programming (OOP).

Certifications & Achievements

• Google Cloud Certified: AI Professional, AI Essentials,

[\[Verify Credential\]](#)

• Meta Professional Backend Developer Certification,

[\[Verify Credential\]](#)

• **Top 10 at Monad Blitz Hackathon**, Built an AI-powered escrow platform using Sarvam AI and **Blockchain**; placed 8th out of 50+ teams.

• **Core and Extensions Repository Maintainer**, **Biscuit IDE – Author and maintainer of an open-source IDE ecosystem with 250+ stars**

• **OSS Contributor**, **Prometheus Operator**, **KubeVirt**, **Zulip (Mobile) – Shipped multiple features to the production codebase.**

• **LeetCode Knight (1,893, Top 8% globally)**, Engineered solutions for 400+ complex problems.

Work Experience

• AI Engineer Intern (Full Stack)

Hooman Digital LLP

July 2025 – Sept 2025

Remote, India

Collaborated within a cross-functional agile AI team to engineer real-time desktop intelligence software for the financial trading industry, interfacing directly with co-founder and tech leads daily.

- Processed visual screen buffers under **50ms**, by engineering a desktop assistant that captures and tracks trading symbols real-time.
- Boosted data streaming throughput by 40%, by rewriting Chain-of-Thoughts traces using asynchronous Server-Sent Events.
- Eliminated bottlenecks under peak traffic, by decoupling the cross-client ingest layer using RabbitMQ brokers and Redis caching.

• Full Stack Engineer Intern

Morvion

Nov 2025 – Feb 2026

Remote, Zurich

Collaborated asynchronously with a Swiss engineering team using Atlassian Jira to track sprints, working directly with the co-founder to execute a long-term product vision.

- Lowered database connection lockups by **35%** under high concurrency, by implementing an automated cache-eviction strategy.
- Centralized internal collaboration, by building a **CRM MVP** featuring real-time Kanban pipelines and Gmail/Outlook synchronization.
- Automated B2B monetization and billing support, by programming Stripe checkout, webhooks, and a credit-based lead purchase.

• Deep Learning Research Intern

NIT Calicut

May 2025 – July 2025

Calicut, India

- Improved biometric signal classification performance by **15%**, by implementing and evaluating 5 CNN-Transformer fusion architectures.
- Reduced model training time by over **25%**, by rewriting optimized PyTorch pipelines featuring automated early stopping.

• Founding Software Engineer Intern

OZi

Oct 2024 – Jan 2025

Remote, India

Worked directly alongside the founding team in a pre-seed startup incubator environment to conceptualize, scale, and ship a consumer facing quick-commerce application infrastructure from scratch.

- Architected and launched OZi's (ozi.in) quick-commerce backend MVP (Node.js/MongoDB) in 5 weeks.
- **Scaled the backend for 12x surges** in transaction volume, keeping P95 latency <35ms by connection pooling and indexing.

Projects

• Biscuit – Open Source Agentic IDE & Developer Tooling Platform

Skills: Python, LangChain, RAG, LLM, ReAct Agents, GitHub Actions, Context Engineering

[\[Source Code\]](#)

- Automated planning, debugging, and coding, by building an IDE with **AI agents, MCP, and human-in-the-loop workflow**.
- Enabled semantic code intelligence across **20+** programming languages, by embedding Tree-sitter parsers and Language Servers.
- Optimized global symbol search under **100ms** for codebases exceeding **1M+** lines, by designing asynchronous indexing.

• Ted – Multi-Agent Orchestration Platform Infrastructure

Skills: Rust, TypeScript, Tauri, React, GitHub Actions, AI Agents, LLM, RAG

[\[Source Code\]](#)

- Distributed complex codebase engineering tasks across agent swarms, by constructing a Rust/Tauri platform with zero-latency IPC.
- Automated autonomous execution, by engineering a Kanban where agents create, manage, and resolve tickets until goals are met.

• Lemon – High-Performance Interpreted Programming Language

Skills: Go (Golang), AST, Parsing, Lexical Analysis, Compiler Design

[\[Source Code\]](#)

- Designed an extensible object runtime environment supporting first-class functions, lexical closures, and an isolated call-stack frame layout to prevent Host-Language stack overflow vulnerabilities.

Technical Skills

• **Languages:** Python, Go (Golang), Modern C++ (C++17/20), TypeScript, Rust, Assembly (x86/ARM), SQL, Bash

• **Backend & Architecture:** Microservices, **REST/gRPC/GraphQL API Design**, Protobuf, WebSockets, IPC, Ledgers

• **Data & Streaming:** Apache Kafka, RabbitMQ (AMQP), Redis Pub/Sub, Asynchronous Event-Driven Architecture

• **Storage & Reliability:** Distributed SQL (Cloud Spanner, CockroachDB), PostgreSQL, pgvector, Redis Cluster, Database Sharding, Connection Pooling, Rate-Limiting, Idempotency Patterns

• **AI & Agentic Infrastructure:** Agentic AI, Multi-Agent Systems (LangGraph), Tool Calling, Model Context Protocol (MCP), Context Engineering, Retrieval-Augmented Generation (RAG), Vector Search Systems (Pinecone/Qdrant), LLMs, PyTorch

• **Systems & Tooling:** Linux Systems Programming, LLVM, Concurrency & Multithreading

• **Infrastructure & DevOps:** Docker, Kubernetes, OpenTelemetry, Grafana, CI/CD, GitHub Actions, Shell Scripting