

Dheeraj C.

Bangalore, India
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Portfolio

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Education

Degree	Institute/Board	Year	CGPA
B.Tech. in Computer Science	Birla Institute of Technology, Mesra	2023 - 2027	8.42 / 10.0

Relevant Coursework: Data Structures, Object Oriented Programming, Databases, Operating Systems, Computer Networks, Soft Computing, Cryptography and Network Security, AI ML, Deep Learning

Achievements

- **LeetCode Knight**, Max rating 1,893 (top 8.31% globally); 400+ problems solved across DSA topics.
- **Open Source Contributor**, Zulip project - Contributed multiple features to the production Zulip flutter app
- **OSS Maintainer**, Tomlin7/Biscuit - Maintainer of a large GitHub project with 250+ stars and it's Extension registry
- **Participant**, Open Source AI Challenge with pgai and Ollama

Experience

- **Full-Stack Developer Intern** Nov 2025 - Feb 2026
Morvion Remote, Zurich
 - Architected a scalable CRM platform from scratch using NestJS and React, designing multi-workspace collaboration and establishing a responsive architecture to support high-concurrency enterprise workflows.
 - Engineered high-throughput data ingestion pipelines via Gmail API integration, automating large-scale contact management and reducing manual synchronization overhead by 10+ hours weekly.
 - Developed production-ready SaaS infrastructure, deploying secure Stripe-integrated subscription systems and building high-fidelity, interactive 3D administrative dashboards utilizing Three.js.
- **Full-Stack Developer Intern** July 2025 - Sept 2025
Hooman Digital LLP Remote, India
 - Architected an **AI-native multimodal reasoning pipeline** for [chartor.ai](#), utilizing **Claude and Gemini** to automate complex financial trend analysis, reducing manual intervention by **65%**.
 - Implemented a **resilient provider-agnostic orchestration layer** with deterministic fallback logic, ensuring system uptime during upstream LLM API outages.
 - Optimized backend performance using **Node.js**, focusing on reducing latency and improving unit economics for high-volume inference requests.
- **Deep Learning Research Intern** May 2025 - July 2025
NIT Calicut Calicut, India
 - Engineered a **SOTA hybrid architecture** using Spatial CNNs and Temporal Transformers, emphasizing **model observability** and data quality frameworks.
 - Designed and validated **automated data-cleaning pipelines**, reducing "toil" in preprocessing raw EEG datasets and improving subject-validation stability by **30%**.

Projects

- **Biscuit - Extensible Native Code Editor with Autonomous AI Agents** [Live Project](#)
Python, Pydantic, AI Agents, Generative AI, Anthropic Claude, LangChain, CI/CD
 - Engineered a **high-performance native code editor**, reducing memory overhead by **92%** (from 400MB to 32MB) and achieving a **sub-20MB** distribution footprint compared to Electron-based IDEs.
 - Developed an autonomous **AI agents framework** with a 15+ tool calling suite, enabling the editor to execute multi-step codebase refactoring with a **95% success rate** on routine file manipulations.
 - Integrated syntax-aware intelligence for **20+ languages** using Tree-sitter, maintaining a consistent **60 FPS UI responsiveness** during real-time parsing of large-scale source files.
 - Leveraged **Ripgrep** to implement global search, achieving **sub-100ms latency** across codebases exceeding **1M lines** of code, outperforming standard regex search implementations by **10x**.
- **Ted - Multi-Agent Orchestration Platform** [Live Project](#)
Rust, Tauri, React 19, GCP, GitHub Actions, Generative AI, AI Agents, LangChain
 - Engineered a **cross-platform multi-agent orchestration platform** in Rust, delivering a **sub-20MB native binary** with short cold startup times by offloading heavy I/O to a memory-safe backend.
 - Developed an **agentic browser automation** for AI agents, implementing a virtual cursor visualization system and a custom **IPC bridge** using URL-hash tunneling to bypass strict CSP in isolated WebViews.
 - Designed an agent **orchestration dashboard** featuring visual Swarm hierarchies, Kanban task management, and Slack-like chat interface enabling real-time monitoring and coordination of multi-agent collaborative workflows.

Technical Skills

- **Languages:** Python, JavaScript, TypeScript, Go, C, C++
- **Frontend:** React.js, Redux, HTML5, CSS3, JavaScript, Tailwind CSS
- **Backend:** Node.js, Express.js, FastAPI, Django, DRF, Microservices, REST APIs, WebSockets, JWT Authentication
- **Databases:** PostgreSQL / MySQL, MongoDB (NoSQL), SQL, Pinecone, Timescale
- **AI/ML:** Prompt Engineering, OpenClaw, Hermes, LLM Integration, Generative AI, AI Agents, HuggingFace, Transformers, Ollama
- **Developer Tools:** Git, GitHub, Google Cloud Platform (GCP), Postman, Vite, Vercel, AWS, Linux / Bash
- **Core CS:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, DAA, Compiler Design, Automata Theory

Positions of Responsibility

- **Documentation Lead**, DRISTI NGO - Tutored 50+ students in Ratanpur Village, Jharkhand, bridging the learning gap through educational initiatives 2023 - 2026
- **Technical Committee**, Literary Society of BIT Mesra - Contributed technical strategies and hosted college fests and literary events, captivating audiences of 500+ 2024 - 2025
- **Organizer**, [Billy's Basement Game Jam](#) - Orchestrated technical strategies and hosting for an indie game jam; coordinated 100+ global participants to deliver creative projects under strict constraints. 2021