

Priyansh Anand

Senior Software Engineer & Founding Engineer | Scalable Backend, Multi-Agent AI, Data & Cloud

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I engineer systems from first principles: research agents with provenance, backends built for scale, and infrastructure designed to fail gracefully and recover cleanly.

EXPERIENCE

15Rock (Canada) | Senior Software Engineer & Founding Engineer Dec 2022 - Present

- Led **15 developers as technical lead**, owning architecture and product-versus-platform tradeoffs; mentored engineers into broader technical ownership while remaining hands-on through production.
- Helped grow 15Rock from zero to its **first million in revenue** through its pivot from institutional climate analytics to LLM-powered deep research.
- Engineered **multi-agent research workflows** that resume from the point of interruption, handle long-running, large-context tasks, and preserve **source provenance and inline citations** for verifiable findings.
- Designed a **custom DAG executor and user-facing workflow builder** for application-specific data flow between nodes and custom retry policies.
- Worked directly with **United Nations, Big Four, consulting, and institutional-investor stakeholders** to develop targeted deep-research products used in their work; investors managed billions to trillions in assets.
- Migrated **scalable, fully serverless infrastructure** from manual provisioning to **Terraform**.
- Led **SOC 2 readiness**, completing controls, policies, and internal audit work in **two weeks**.

Oracle | Member Technical Staff Jul 2023 - Aug 2025

- Developed **Apache Spark** ETL pipelines and workflow orchestration moving **petabytes of data per month**, including healthcare and government datasets containing personally identifiable information (PII).
- Analyzed Spark run histories and **out-of-memory failures**, then rewrote and optimized queries; helped cut selected runtimes from **over 10 hours to under one hour**, reducing memory usage and cloud costs.
- Shared end-to-end ownership of development, testing, deployment, and performance in a small team; contributed dashboards and analysis for C-suite reporting.

Jio | Software Engineer Intern May 2022 - Jul 2022

Implemented **Go** backend tooling to provision **Azure Data Lake** analytics pipelines programmatically. Worked with healthcare datasets containing PII, incorporating privacy considerations into pipeline setup and data workflows.

Probelogic Pty Ltd (Australia) | Software Development Engineer Jun 2021 - Nov 2021

Created ultrasound-testing software that communicated with a custom hardware board over sockets, executed tests, and collected measurements; integrated visualizations and analysis to inspect equipment behavior.

RESEARCH & OPEN SOURCE

SocioFlage | Research Co-developer, IIIT Delhi Dec 2021 - May 2023

- Co-developed a multi-hop Discord prototype exploring anonymous, censorship-resistant sharing, with **probabilistic routing** adapting to successful replies and timeouts, plus **LRU caching**.
- Tested **100 bots across 20 servers**; compared broadcast, cached, and distributed retrieval and simulated network growth, connectivity, and node failures.

cpu-cli (Rust): Developed a macOS/Linux CPU inspector with hybrid core topology, shared caches, and versioned JSON; added field-level provenance and replayable hardware snapshots for reproducible debugging.

nordvpn-linux (Python): OpenVPN client with privilege separation, a hardened daemon, and configuration allowlisting.

Steganographer (Python): Image steganography with LSB and JPEG-robust DCT embedding, authenticated encryption, and Ed25519 signatures; built-in steganalysis and a browser-local Pyodide demo.

TECHNICAL SKILLS

Languages: Python, TypeScript, Java, Rust, Go, C/C++. **AI & web**: FastAPI, LangChain, LangGraph, React, Next.js.

Data: Apache Spark, PostgreSQL, Elasticsearch, Azure Data Lake. **Cloud**: GCP, Oracle Cloud, AWS.

Infrastructure & security: Terraform, Linux, OpenVPN, applied cryptography.

EDUCATION & COMMUNITY LEADERSHIP

Indraprastha Institute of Information Technology, Delhi (IIIT Delhi) 2019 - 2023

B.Tech., Computer Science & Engineering

d4rkc0de Coordinator (Jan 2022 - Jan 2023): Coordinated IIIT Delhi's hacking club, organized and competed in CTFs, and conducted security workshops to share challenge-solving techniques and introduce students to security.