Hardeep Narang

Software Engineer

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PROFILE HIGHLIGHTS

- CoFounded Vexio. Built the product from 0 to 1. Developed AI and Backend systems from scratch.
- Engineered multiple production-ready distributed backend systems spanning 100s of microservices in Python and Go.
- Previously engineered a majority of TotalityCorp's backend, leading to 1.3M USD in funding, and an early promotion.
- Prior experience setting up and managing cloud infrastructure across AWS, GCP. Administered Kubernetes clusters.

WORK EXPERIENCE

Vexio   **July '24 - April '25**
Co-Founder and CTO   *Bangalore, India*

- Built the product from 0 to 1. Engineered Backend and AI systems. Oversaw Frontend engineering development.
- Engineered one-of-its-kind API gateway that reduces processing overhead by one order of complexity (linear to near-constant).
- Designed system architecture, applications, and API contracts. Setup service accounts for various systems integrations.
- Developed internal frameworks and libraries for advanced AI applications, including in-house Agentic workflows.
- Conducted experiments and POC trials. Benchmarked performance and scalability-critical system components.
- Other business operations like market research, product planning, hiring, setting up automations, observability etc.

Totality Corp Pvt. Ltd.   **Jun '21 - Jan '24**
Software Engineer II | Software Engineer I   *Remote, India*

- Designed, developed, and maintained 100s of high-performance gRPC and REST APIs across various GenAI and Web3 projects.
- Setup cloud infrastructure on AWS and GCP. Potential candidate for best governance nomination by GCP partner team.
- Administered Kubernetes Clusters. Built CI/CD pipelines. Wrote CRDs and Operators for managing AI/ML workloads.
- Engineered multiple events and data-driven distributed systems architecture. Decomposed several monoliths to microservices.
- Designed multiple database and cache schemas based on known and projected requirements and access patterns.
- Authored 40+ systems development and usage documentations and wikis. Defined code contribution and testing guidelines.
- Set up and managed application security based on modern governance principles of zero-knowledge and zero-trust.
- Interviewed, onboarded and led a team of 4 engineers in extending application capabilities. Reviewed PRs.

PERSONAL PROJECTS

⚓ Zuno: Perfect Distributed Backend   **Nov '23**
Stack: Go, gRPC, OpenAPI, MySQL, Redis, Kubernetes, OpenTelemetry, Grafana, Loki, Jaeger, Envoy.

- Implemented a production-ready, ultra-high performance application backend spanning 40+ REST and gRPC microservices.
- Achieved P99 latency of less than 3 milliseconds. Benchmarked against 1k RPS on a single-node Kubernetes cluster.
- Features custom API definition format functioning as the source of truth, encompassing all aspects of defining the APIs.
- Integrated complete application observability at every layer of each of the services: reports logging, request tracing and metrics.
- Implemented Google AIPs in the API design, usage, implementation and documentation. Implemented detailed error reporting.
- Implemented Zero Trust security principles with internal KMS, mTLS-enforced communication, RBAC, and network policies.

⚓ Pandora: Container Runtime Engine   **Jul '23**
Stack: Go, Bash, Linux, Syscalls, Namespaces, Cgroups, Networking.

- Developed a non-privileged Linux container engine in Go using only system calls and zero external dependencies.
- Leveraged Linux kernel namespaces for process isolation, network namespaces and iptables for network programming, control groups for resource limiting, chroot for filesystem localization and volume mounting, and setcap for privileged access control.

EDUCATIONAL QUALIFICATION

M.R.S. Punjab Technical University, Punjab, India   **Aug '16 - Oct '20**
Bachelor of Technology (B.Tech) | Computer Science Engineering | 82.3 Percentage

Army Public School, Allahabad, India   **Apr '14 - Mar '16**
Physics, Chemistry, Mathematics (PCM) | Computer Science | 93.1 Percentage

RELEVANT SKILLS

Tools/Technologies: Go (Golang), Python, MySQL, Postgres, MongoDB, Redis, Elasticsearch, Django, FastAPI, gRPC, Text and Image inference, Agentic Workflows, Streaming Systems, AWS, GCP, Linux, Kubernetes, Docker (Compose), NATS, etc.