

Aryan Anand

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Education

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| PES University , B.Tech in Computer Science | Sept 2022 – May 2026 |
| • Coursework: Data Structures & Algorithms, Computer Networks, Applied Cryptography, Big Data, Database Management, Database Technologies, Blockchain | 6.93/10 |
| Rajendra Vidyalaya , X - XII | Mar 2020 – Mar 2022 |
| Physics, Chemistry, Mathematics, Computer Science | 84.7% |

Experience

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| Open Source Contributor <i>Apr 2025 – Present</i> | <i>Cosdata (Next-gen Vector Database) · Remote</i> |
| <ul style="list-style-type: none">• Fixed duplicate ID insertion bug — #340• Cleaned up indexing after deletion — #288• Removed redundant API routes — #338• Added admin password reset API — #307• Improved install script compatibility — #300, #305• Enhanced docs and contribution flow — #284, #296 | |

Projects

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| BashScripts - Collection of Custom Utility Scripts | <i>aryan-212/BashScripts</i> |
| <ul style="list-style-type: none">• BigData-Docker: Simplified the Big Data elective setup via Docker-based environment.• PESULogin: Automated captive portal login for college Wi-Fi using 'curl'.• ArchHibernator: Enabled seamless hibernation on Arch via swap/kern param detection.• Tools Used: Bash, Docker, cURL, Linux System Utilities | |
| DeepStalk - Multi-Threaded Dark Web Scraper | <i>aryan-212/DeepStalk</i> |
| <ul style="list-style-type: none">• Developed the world's fastest open-source .onion crawler, leveraging Rust's async runtime, Tokio for concurrent networking, and a high-performance frontier management system with Bloom filters and priority queues.• Tools Used: Rust, Reqwest, Docker, ElasticSearch | |
| BackendBro - AI-Powered Rust API Generator | <i>aryan-212/BackendBro</i> |
| <ul style="list-style-type: none">• Created a multi-agent AI system that converts natural language prompts into fully functional Rust APIs with complete CRUD operations, automated testing, and self-healing capabilities for robust backend generation.• Tools Used: Rust, Actix-web, Tokio, Serde, Reqwest | |
| EmoStream - Real-time Emoji Processing System | <i>aryan-212/EmoStream</i> |
| <ul style="list-style-type: none">• Built a high-performance, event-driven system using Kafka and Flask for real-time emoji broadcasting. Implemented concurrent processing with multiple subscribers, RESTful APIs for client management, and containerized deployment using Docker• Tools Used: Python, Kafka, Flask, SparkSQL | |

Technologies

Languages: Rust, Go, Python, TypeScript, SQL

Technologies & Tools: Docker, Kubernetes, Git, GitHub Actions, Linux, Neovim, VS Code

Backend: Axum, Actix, PostgreSQL, MongoDB, Redis, Firebase, REST, WebSockets

Distributed Systems: Kafka, Hadoop, Spark, Flink, Redis Queue, Elasticsearch