

Aryan Bharti

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EDUCATION

Vellore Institute of Technology

BTech in Computer Science, specializing in Information Security - CGPA: 8.70

Vellore, Tamil Nadu

September 2022 – Present

EXPERIENCE

Jio Platforms Limited

June 2024 - July 2024

Technical Intern - Jio Ads [website](#)

HLS Stream, Typescript, Express

- Designed a HLS Master and Media Playlist Validator, reducing stream failure rates by 30%.
- Established continuous monitoring system, improving time to stream recovery by 40%.
- Formulated validation logic to support SSAI streams, enabling real-time monitoring of server side ad insertion.

Preternatural AI, Inc (YC W24)

May 2023 - June 2024

Fullstack Developer Intern [website](#)

Typescript, NextJS, LLM API's, Hono

- Constructed unified API supporting 10+ LLMs, featuring custom SDK with streaming capabilities
- Executed web UI optimization, enhancing responsiveness by 80% and slashing SDK gateway response time by 50%
- Integrated usage and rate limiting based on transactions cycles as setup by developers.

Interact Now

December 2023 - March 2024

Backend Developer - Founding Team [website](#)

Fiber, Golang, Postgres

- Optimized impressions counting using concurrency, minimizing db calls and improving response times by 40%
- Incorporated filtering on several routes by modifying the db connection, minimizing data retrieval by 45%
- Architected a robust chat system using native WebSocket API's, a 8x efficiency increase over socket.io

TECHNICAL SKILLS

Languages & Frameworks: Typescript, Go, NextJS, NestJS, Express, Fiber, Java, C++, Postgres, MongoDB, Redis

Certificates: AWS Certified Cloud Practitioner (CLF-C02)

WEB-100 by Offensive Security

CS50x by Harvard University

PROJECTS

Rekindle

February – March 2024

AI life journal for Dementia and Alzheimer patients [backend](#) [frontend](#) [medium](#) [blog](#)

FastAPI, Postgres, NLP

- Created an interface for patients to journal their day and converse with an empathetic LLM.
- Integrated emotion extraction for users to search memories by how they felt that day (joy, excitement, etc.).

Regit

January, 2024

CLI tool to manipulate Git histories. Available in winget and brew. [source](#) [medium](#) [blog](#)

Golang, Cobra, Git

- Architected "recommit" feature to write better commit messages, leveraging Go's concurrency
- Crafted git history reconstruction, allowing commit timestamp and ownership changes.
- Compatible with all Git hosting providers, displaying the dubious commits identically to a real one.

Vellore Institute of Technology's Tech Team

July – September 2023

Frontend Developer for Gravitas, VIT's annual tech fest [link](#)

NextJS, Tailwind, React-spring

- Spearheaded Gravitas's site, overseeing animations, backend integration, optimization, cutting page load by 40%.
- Led development of 5+ key pages, including event listings and registration forms, ensuring site-wide consistency.
- Achieved a user base of over 35,000+ registrations for Gravitas events through the website.

EXTRACURRICULAR AND ACHIEVEMENTS

Yantra '24 organizer

Organized VIT's annual techno innovation fest with 21 hacks and 38 tech events.

VIT, Vellore

February - April 2024

Intel GenAI hackathon winner

Created Rekindle, a digital aid for Alzheimer's and Dementia patients, winning 2nd place.

VIT, Vellore

February 2024