Aryan Bharti

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EDUCATION

Vellore Institute of Technology Vellore, Tamil Nadu
BTech in Computer Science, specializing in Information Security - CGPA: 8.70 *September 2022 – Present*

EXPERIENCE

Preternatural AI, Inc (YC W24) September 2024 - Present
***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.

Attack Capital (YC W22) June 2023 - August 2024
***Fullstack Developer Intern* [website]** *Typescript, NextJS, Websocket*
- Spearheaded development of powerdialer.ai, reducing manual call time by 10+ hours per sales rep weekly
- Orchestrated CRM integrations (Salesforce, HubSpot), achieving 100% automated contact synchronization
- Engineered AI voicemail system and VoIP architecture, delivering 10x improvement in customer connect rates

Jio Platforms Limited May 2024 - June 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.

PROJECTS

Vellore Institute of Technology's Tech Team July – September 2024
Backend developer for Gravitas 2024, VIT's annual tech fest [link] *Fiber, Golang, Postgres*
- Architected scalable backend infrastructure for Gravitas 2024, handling 1.7M page views with 99.9% uptime
- Engineered secure payment processing system managing 65+ lakhs in transactions with sub 0.1% failure rate
- Implemented load balancing and caching strategies, reducing server response time by 40% under peak loads of 10K+ concurrent users

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

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.

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

ACHIEVEMENTS

Intel GenAI hackathon winner VIT, Vellore
Created Rekindle, a digital aid for Alzheimer's and Dementia patients, winning 2nd place. *February 2024*