Nathan Paul

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EXPERIENCE

Backend Developer, **Phase-R**   Jan '25 – Feb '25
- Implemented hydration and nutrition tracking features using **Go** and **Gin**.
- Tested API endpoints, tracking and data ingestion. **MongoDB**

Developer, **ACM Industrial Experience Program**   Feb '24 – Apr '24
- Part of the team that built **anna**, a static site generator written in Go
- Achieved **284.5 ms** render time for a 1000-file benchmark, outperforming Hugo and 11ty
- Created a sitemap generator, setup RSS feeds and an interactive tag-graph (D3.js)
- **DevOps**: Setup CI/CD pipelines, a setup wizard and theme-bootstrapping
- Presented at the 76th Go Bangalore meetup.

SKILLS

Languages: Go, Python, Bash, C, Nix, CSS
Technologies: Git, Docker, GNU/Linux, Vim, Observability
Writing, Communication: Blogging, LaTeX, Free Software Documentation, RFCs

PROJECTS

- **anna**: Lightning-fast static site generator written in Go.
- **py-typer**: A speed typing test written in Python.
- **pasta**: Minimal pastebin service written in Go.
- **jukebox**: Queue LastFM music recommendations using mpd, yt-dlp, & Python.
- **lava**: Node daemon that periodically saves bookmarked articles to your Obsidian vault.
- **wombat**: Wikipedia crawler that helps visualize relationships between articles.
- **bullet**: Collate similar articles from various RSS feeds using cosine similarity.

EDUCATION

B.Tech in Computer Science & Engineering at PES University   2023 - 2027
ISFCR Dean's Award: Ranked 6th out of 250 participants in a jeopardy-style CTF

Technical Mentor @HSP PESU
- Maintainer for the club website, powered by anna
- Part of the Mentor panel for psh, a POSIX-like shell
- Presented **jukebox** and **anna** at HSP Mentor Expo and Fireside Talks.

Member @ACM PESU
- Maintainer Lead for Hacknight 6.0.
- Part of the Mentor panel for nimbus, a TUI client for Bluesky

Member @GDSC PESU
- Hosted a workshop FOSS 101
- Designed Team, Override: GDSC Solutions Challenge hackathon.

INTERESTS

Free Software • Privacy • Protocols • GNU/Linux • Systems • Startups • Zero Knowledge Proofs

MISC

- [Videos](#) YouTube channel focused on tech, privacy, and libre software.
- [Photos](#) Photos that I have shot and edited.
- [Ammachis Kathas](#) Malayalam short stories (an audiobook)
- [arceo](#) Blocklist against social media, news & consumerism.
- [wiki](#) My digital garden, a linkstash with clippings from the web
- [Proof of Work](#) A reverse chronological record of my work

↻ Last build: February 18, 2025