

## CV

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### Vivek Pal

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[LinkedIn Profile](#) | [GitHub Profile](#) | [Portfolio Website](#)

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## Summary

Systems and infrastructure focused software engineer with a strong foundation in Rust and distributed systems. Specialized in building decentralized applications, OS-level software, and peer-to-peer systems. Active open-source contributor with demonstrated experience in system architecture and blockchain technologies.

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## Technical Skills

- **Primary Languages:** Rust, C, TypeScript
  - **Systems Programming:** WASM, Linux Kernel Modules, GTK
  - **Blockchain:** Solana (@solana/kit, anchor, agave, etc..), IPFS, Filecoin
  - **Web Technologies:** WebGL, React.js, Next.js
  - **Tools & Platforms:** Git, Linux, Docker, IPFS, Libp2p
  - **Databases:** PostgreSQL, LightSQL, Redis
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## NOTABLE PROJECTS

### [wind network](#) (Feb, 2025-Present)

*Decentralized Data Streaming for Solana*

- Solana data streaming engine built on libp2p's gossipsub protocol
- Applying zero-knowledge proofs for efficient state representation

### [ShastraOS](#) (2020-2023)

*Decentralized Desktop Operating System*

- Architected and developed an Arch-based Linux distribution with custom package management

- Implemented Filecoin and IPFS integration for decentralized software package distribution
- Built system-level applications using Rust and GTK for the GNOME desktop environment
- Designed and implemented time-shift backup systems with decentralized storage

## GossipRPC (2024)

### *Distributed RPC Implementation*

- Developed a novel RPC system using libp2p's gossipsub protocol for P2P communication
- Implemented resilient message broadcasting across decentralized networks
- Created robust error handling and network resilience mechanisms

## Chat p2p (2023)

### *Peer-to-Peer Communication Platform*

- Built a decentralized chat application using Rust, WASM, and Libp2p
  - Implemented secure peer discovery and connection handling
  - Developed efficient message routing and delivery systems
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## OPEN SOURCE CONTRIBUTIONS

### Protocol Labs Dev Guild (Cohort 1, 2 and 3)

#### *OSS Contributor*

- Participated in Filecoin Hacker House to solve Solana's historical retrivals from Filecoin
- Contributed to rust-libp2p
- Contributed to forest, filecoin implementation in rust

### GNOME Foundation (2021-2022)

#### *Open Source Contributor*

- Contributed to some gtk components and applications, like gnome-web
- Improvements and some fixes in gtk-rust bindings
- Collaborated with international developer community through GitLab

### FOSSCU (2022-Present)

#### *OSS Maintainer*

- Lead maintainer for open-source community with 300+ members
- Contributed to and reviewed Rust-based system utilities
- Organized workshops and training sessions on systems programming

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## PROFESSIONAL EXPERIENCE

### wind network (March, 2025-Present)

*Founder*

- Solana's data steaming and archiving decentralized node consensus network.
- Powered by Jito, got 2nd prize in Jito GRID, global hackathon.
- Got support from Superteam and Solana Foundation to build the infrastructure,

### Aletheia Labs (2024 November - 2024 March)

*Rust and Systems Engineer and Founding Member*

- Developing high-performance distributed protocols for data retrieval
- Implementing for Solana decentralized data streaming with libp2p gossipsub(Interplanetary Data Machine)
- Maintaining working group of 30 people

### Cypher (2024 July - 2024 November)

*Founder and Enginer*

- Built Indexer for my project with wormhole - Senshi (Cross chain in game assets)
- Built sdk for wormhole's crosschain in game assets, purchases and deposits
- Later opened the indexer to used by community and ecosystem.

### Kwenta (2024)

*Backend Software Engineer*

- Build perpetuals contracts on Optimism with decent tests
- Worked on some server components

### Cubik (2024)

*Fullstack Software Engineer*

- Implemented Wallet Contexts and Modal
- Worked on UI Components Library

### Buidlers Tribe (2023-2024)

*Web3 Engineer*

- Created smart contract implementations for decentralized applications
  - Worked on Data Analysis and Graph protocol
  - Ethereum Contracts and Twitter Bots
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## EDUCATION

- B.Tech Computer Science, [IFTM University](#) (2021-2025)
- [Harvard's CS50](#) 2021
- [Helsinki University's](#) Full Stack Open 2020

## ACHIEVEMENTS

- Wormhole [Fellowship Program](#) Participant
  - Solana Hackathon Winner ([Solway](#) Project)
  - Jito Hackathon Winner ([Windexer](#) Project)
  - Active member of [Superteam](#)
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