Atharva Amritkar

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EDUCATION

Indian Institute of Technology, Kharagpur — Kharagpur, India
Bachelors - Economics; CGPA: 8.72 — *Oct 2020 - Present*
Masters in Computer Science, Micro-specialization in Artificial Intelligence

EXPERIENCE

Blockchain-based Federated Learning Systems For Medical Imaging — University of Calgary
Research Project — *Prof: Steve Drew*
- **Proof of Concept**: Created a PoC system of federated learning system for making prediction in medical imaging
- **Setting Workflow**: Aggregated models periodically to a central server to create a global model

Summer of Bitcoin - Fedimint — Remote
Blockchain Developer (Part-time) — *Apr 2022 - Jul 2022*
- **Fedimint module for Nix-Bitcoin**: Nix module in nix-bitcoin that allows configuration of a Fedimint federation member. Builds Fedimint and other tools with one command and same output on all systems.
- **Lightning Gateway**: Worked on integrating Fedmimint Module with clightning with ln-gateway as bridge.
- **Reproducible Builds**: Nix expression that builds the project's binary outputs. Used nix-build and nix-flakes
- **Github Actions**: Setup CI/CD workflow with Nix and support caching via cachix.

Google Summer of Code - Gentoo Linux — Remote
Student Developer (Part-time) — *June 2022 - Aug 2022*
- **Creating Profile for RISC-V**: Made a new profile for Gentoo prefix on RISC-V for lp64d no-multilib.
- **Bootstrapping Prefix on RISC-V**: Fixed bugs in all three stages of Prefix on RISC-V to make it possible to bootstrap and use a Gentoo Prefix system on RISC-V architecture. Eventually used in Compatibility layer of EESSI.
- **Package Testing for RISC-V**: Tested, Fixed and Keyworded RISC-V to 150+ packages in Gentoo ebuild repository.

Summer of Nix — Remote
Nix Developer (Part-time) — *July 2022 - Sept 2022*
- **Packaging applications**: Used Nix to package applications of Jitsi and NlNet to get reproducible builds.
- **CI/CD Workflow**: Setup workflow with Github actions for all packages and for various architectures.

PROJECTS

DAppMate — Won Solana Hackathon
- **Project**: Space for project collaboration for the web 3.0 ecosystem, swipe different projects, developers and collaborate
- **Impact**: Mobile first app wherein we can see the history of projects like we see in GitHub and contribute. Then we will have hackathons listed and find people participating and looking for teammates. With a tinder style! Simple and fast.

SourceHunt — Won ETHIndia Hackathon
- **Project**: Product like SourceHunt using Router Protocol and StackOS for hosting DApps and maintaining with Git.
- **Impact**: Organizations can list their organizations, and Contributors from different regions can learn more about the organization's ecosystem, opportunities they get if they contribute to those specific organizations

Ultrachess.org — Grants from Cartesi
- **Project**: First Layer2 dApp that allows user to compete fully onchain chess matches with more than just their elo's at stake
- **Impact**: Player wagering and bot ownership. It can be enjoyed in varying levels of experties. Normal chess players who are interested in earning money from wagering. Non-chess player who are interested in placing bets on bots and humans. NFT collectors who would like to own a bot that can engage in automatic battles as they sleep.

HONORS AND AWARDS

- ETHIndia Hackathon, ETHGlobal Winner - Won StackOS and Router bounty for the project SourceHunt(Dec,22)
- Reef Hackathon, Reef Blockchain - Won on-site hackathon out of 300 participants (Dec,22)
- Solana Hackday, Solana Foundation x Superteam - Won the hackathon for the project SolMate (Nov,22)
- Top 2 Mentor and Contributor in GWoC (Fields - Rust and Solana) (Dec,21)
- Runner's Up at Website Hackathon, IIT Kgp (Mar,21)

VOLUNTEER EXPERIENCE

Blockchian Society - Founder — Kharagpur, India
Helped new open source enthusiasts to get familiar with blockchain, organized hackathons. — *Nov 2021 - Jan 2022*

GirlScript Winter of Code - Top Mentor — India
Mentored and Contributed to the world's largest multilingual repository, ended up in Top 2 — *Dec 2021 - Feb 2022*

Kharagpur Open Source Society - Executive Head — Kharagpur, India
Organized events, mentored students, delivered workshops reaching over 1200+ developers. — *Nov 2021 - Jan 2022*

Open Source - Contributor and Maintainer
I contributed and maintained several organizations like Gentoo Linux, EESSI, NixOS, cargo2nix, Pkgcraft, EndeavourOS and several more open source organizations